

# Electronic Data Platform User Manual - Fluxys

# All Fluxys operational data on the Belgian territory

18/09/2024	Last updated version

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# 1. Introduction

In the framework of the execution of Transmission & ZTP Trading, Storage and LNG Terminalling Services under the Standard Transmission Agreement, the Standard Storage Agreement and/or the LNG Terminal Agreements, Fluxys offers grid user access to and use of the Electronic Data Platform with the Electronic Booking System included. Such access will be granted to grid user representatives, further referred to as users, on a non-exclusive and non-transferable basis and as from the moment those users become registered.

Fluxys is for commercial, operational and regulatory purposes offering different access rights to the Electronic Data Platform. The following distinction is made depending on the type of data made available:

- Public data is data made available to anyone without access restriction placed on such kind of data,
- Private data is data made available to a specific grid user, with restricted use depending on the access rights granted to the user of the Electronic Data Platform. The menu items with the symbol are only privately accessible. Depending on his role (which was defined by the SPOC) he may or may not access all functionality shown on this screen.

In order to access the Electronic Data Platform user must log in via <u>https://gasdata.fluxys.com/</u> For an optimal use of the data platform, we advise you to use the browser Google Chrome / Microsoft Edge.

fluxys <sup>&amp;</sup>				User Manual	www.fluxys.com	FR NL EN Sign in
nuxy5 -	Transmission & ZTP Trading Services	Storage	LNG terminalling			
Welcome to the Fluxy	s Belgium Electronic Data Platforn	n	fluxys <sup>6</sup> 🚡 BA	LANSYS		
			Email Address			_
	will be able to access all Fluxys Group applicati ssibility as from 2 January to choose a new pas fo.transport@fluxys.com.					
Please contact your company Sf	POC for problems with signing in.		_			
Please contact our commercial o Platform, Phone : +32-(0)2-282.77.77 - Fa e-mail : <u>info.transport@fluxys.co</u>		tual aspects and que	stions relating to roles and u	ser management of th	e Electronic Data	
Please contact our dispatching fr Phone : +32-(0)2-282.70.07 - Fa e-mail : <u>dispatching@fluxys.com</u>						
i						

1.1	Glossary
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Agreement ACT Business Party (BP)	Generic naming for STA (Standard Transmission Agreement), SSA (Standard Storage Agreement), LTA (LNG Terminalling Agreement), LTL (LNG Agreement for LNG Truck Loading), LTSA (LNG Transshipment Services Agreement), CSA (Capacity Subscription Agreement), LSA (LNG Service Agreement) Access Code for Transmission A Business Party is a company with whom Fluxys does business (i.e. has a capacity contract). In Fluxys' ICT systems, a Business Party typically is limited to one of the possible activities (Transmission – Storage – Terminal) in which Fluxys or one of its subsidiaries is the operator. In other words, if the same
	company is active for all three activities (i.e. has an active STA, SSA and LTA), it will be technically registered as different business parties in the respective ICT system of the concerned activity.
Electronic Booking System (EBS)	Part of the Electronic Data Platform provided by the TSO which allows Grid Users to subscribe transmission services.
Electronic Data Platform (EDP)	The internet application offered by Fluxys to the Fluxys Service User on which Fluxys and its affiliates shall give access to both public and private data and its associated Electronic Booking System through which the Grid User can subscribe transmission services.
Extranet- Administrator (Ex SPOC)	Fluxys Service User Representative appointed by the Fluxys Service User according to procedures set forth in the Agreements (STA, SSA, LTA) who shall be the contact person between the Fluxys Service User and Fluxys Belgium and its affiliates, and who is entitled to do the administration setup. An Extranet-Administrator is always defined for a Business Party Association (BPA) and an activity. The Extranet-Administrator can only define user rights for the BPA and the Fluxys activity that is associated to him/her.
Fluxys	Can either be Fluxys Belgium as Fluxys LNG.
Fluxys activity	Fluxys has three regulated commercial activities, being Transmission, Terminal and Storage.
Fluxys Service User	The Fluxys Service User is a generic naming for Transmission Service User, Storage User, Terminal User.
Transmission Service User	Generic naming used in this document only for Grid User, Gas User, TSO.

User	The user that is associated to a BPA. This user can sign in to the EDP and to the EBS with a user name and password.
Working Hours	From Monday to Friday between 9 am and 6 pm Belgian Local Time, except during bank holidays in Belgium or the TSO's general holiday schedule.

# 1.2 Availability and use of the EDP and EBS

The Electronic Data Platform and Electronic Booking System are intended to be accessible 24 hours per day and 7 days a week. Assistance in case of technical problems or unavailability of the EDP or EBS for whatsoever reason or the helpdesk will only be ensured by Fluxys or one of its affiliates during Working Hours.

Fluxys and any of its affiliates reserve the right to suspend or otherwise limit the availability of part or all of the EDP or EBS at any moment to make all modifications likely to improve or expand its operation or simply to ensure its maintenance. The Fluxys Service User will be notified in due time of any change in the EDP or EBS or any such unavailability. Fluxys and any of its affiliates will use its reasonable endeavours to keep such unavailability to a minimum.

The use of the EDP, and the data published on it, is at the user's own discretion and risk. Data on EDP may contain inaccuracies.

# 1.3 Extranet-Administrator & users

Upon registration of Extranet-Administrator(s), Fluxys will create a user account for the Extranet-Administrator and associate this account to the relevant BP. A Extranet-Administrator is a specific type of user, who acts as a Single Point Of Contact role for one or more Fluxys contexts.

For example, an Extranet-Administrator user in a Terminal context will be able to create and manage users for his BPA in the Terminal context.

The Extranet-Administrator is initially created in the Fluxys Group CRM Platform with the role of 'Extranet – Administrator'.

The Extranet-Administrator user details, such as mobile phone number and e-mail address, are required.

The Extranet-Administrator user will receive an e-mail to proceed with the creation of his/her account.

The Extranet-Administrator needs to complete his/her account creation via the general account set up mechanism explained in the next chapter.

The Extranet-Administrator has administration rights which allows to create & manage users related to the SPOC / BP he/she is a Extranet-Administrator for.

This administration of user rights is to to be done in the Fluxys Group CRM Platform.

These users need to have at least the 'Extranet – Reader' role to access private parts of EDP with reader rights.

More information related to EDP rights & roles can be found in the Fluxys Group CRM Platform user manual.

# 1.4 Roles & EDP pages

The following overview lists the correspondence between the role defined in Fluxys Group CRM Platform & the different EDP pages:

Role	EDP page
Extranet – Reader	All public & private EDP pages in read only mode.
Extranet – Manager	All EDP pages where registration or validation of transactional data is possible.
Extranet – Allocation Agreement Validator	EDP page to approve the allocation agreements
Extranet – Measurement Index Encoder	EDP page to encode metering index
Extranet - Api Account	Is a role used for automatic downloads, usually executed by an external system that requires private data relating to the grid user.

# 2. Functionalities for the users (including Extranet-Administrators)

# 2.1 Creating your account

This section will guide you through the process of creating your account during your first-time login and setting up two-factor authentication (2FA) for added security. This process is linked to the Single Sign On (SSO) and is not as such a process specific to EDP.

1. Navigate to EDP
Open your web browser, navigate to EDP [https://gasdata.fluxys.com/] and click on [Sign in]
2. Enter your email address
Enter the email address that has been used to set up your account on the Fluxys platforms. After entering the email address, click the <b>Continue</b> button.
fluxys 🖏 🛼 BALANSYS
john.doe@imaginary-energies.com
Continue

If you receive an error message, please contact your Fluxys point of contact.

- An account could not be found for the provided user ID: Your account was not found our systems.
- Your account has been deactivated: You have waited more than 30 days to activate your account and it has been deactivated for security reasons. The account needs to be reactivated before it can be used.

#### 3. Initiate the first-time login flow

As you are logging in for the first time, you need to set a password. In order to do so, click the **First time login** link.

fluxys <sup>ල</sup>	BALANSYS
Sign in with	n your email address
Email Addr	ess
john.doe@	imaginary-energies.com
Password	First time login/Forgot Password
I	
Sign in	U

#### 4. Send a verification code

In this step, we validate your identity. By clicking the **Send verification code** button, an email will be sent to your email address with a temporary verification code.

fluxys <sup>ලි</sup>	BALANSYS	
john.doe@ir	maginary-energies.com	
Send veri	fication code	

#### 5. Check your email

Wait for the email with the verification code to arrive. Note that the verification code will only be valid for <u>5 minutes</u>. After 5 minutes, you will need to request a new verification code in order to continue.

Fluxys Extranet Identity	Provider account email verification code 🔤 🖉	
Microsoft on behalf of Fluxys Extra	ranet Identity Provider «msonlineservicesteam@microsoftonline.com» 11:27 (0 minuten geleden) 🕁 🙂 🕤 🗄	
aan mij 👻		
	Verify your email address	
	Thanks for verifying your account! Your code is: 488741	
	Sincerely,	
	Flwys Extranet Identity Provider	
	This message was sent from an unmonstored email address. Please do not relyby to this message.	
6. Enter the verificatio	on code	
Enter the verification	code on the logon screen and click Verify code.	
fluxys 🖁 🐇 BALANSYS		
Verification code has been box below.	n sent. Please copy it to the input	
john.doe@imaginary-energ	gies.com	
Verification Code		
372689		
Verify code Send ne	ew code	
7. Code verification re	result	
message that the coc to the previous step	de entered is correct and entered within 5 minutes, you will de has been verified. If your verification code is rejected, please (using the browser back button) and request a new verificat pceed to the next step.	e go back
fluxys 🖁 🚡 BALANSYS	5	
The code has been verifie	ed. You can now continue.	
john.doe@imaginary-energ	gies.com	
Continue		
8. Choose and confir	rm your password	
Enter the password yo	ou would like to use for your account.	

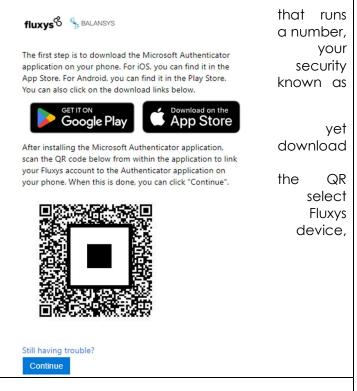
fluxys & HALANSYS
New Password
Confirm New Password
••••••
Continue
The allowed password characters are:
• A-Z
•
• 0-9
<ul> <li>@ # \$ % ∧ &amp; * □ + = [ ] { }   : ' , . ? / ` ~ " ( ) ;</li> </ul>
Characters disallowed are:
• Spaces
Unicode characters
A . character immediately preceding the '@' symbol.
The password should be between 8-16 characters, and requires 3 out of 4 of the following:
Lowercase characters
Uppercase characters
• Numbers (0-9)
• Symbols (see the allowed characters above)

# 9. Setup a Microsoft Authenticator app account

As a final step, you will register your account in the Microsoft Authenticator app.

An Authenticator app is an application on your mobile phone and generates which you will have to provide next to password during logon. It's an extra measure to prevent identity spoofing multi-factor authentication.

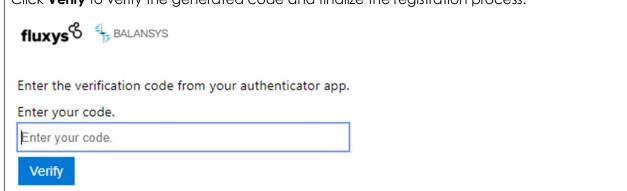
If the Microsoft Authenticator app is not installed on your mobile phone, and install it by following the instructions displayed on-screen. Scan code with your Authenticator app, **Work account** if asked, and once your account is registered on your mobile click **Continue** in your browser.



#### 10. Enter the code generated by the Authenticator app.

Open your registered account in the Authenticator app and copy the displayed number into your browser window. This is to ensure that your account is properly registered in the Authenticator app.

Click **Verify** to verify the generated code and finalize the registration process.



You've successfully logged in and can use these new credentials to log in moving forward!

# 2.2 Logging into EDP

#### 1. Navigate to EDP.

Open your web browser, navigate to EDP [https://gasdata.fluxys.com/] and click on [Sign in]

2. Enter your email address	fluxys & Balansys
Enter the email address that has been used to set up your account on the Fluxys platforms. After entering the email address, click the <b>Continue</b> button.	Email Address john.doe@imaginary-energies.com Continue
<b>3. Enter your password</b> Enter your password and click on <b>Sign in</b> .	Sign in with your email address Email Address john.doe@imaginary-energies.com Password First time login/Forgot Password?
<b>4. Enter your verification code</b> Open your Authenticator app and enter the verification code. Then, click on <b>Verify</b> .	Enter the verification code from your Microsoft Authenticator app. Enter your code. Enter your code. Verify

# 2.3 Resetting your password

## 1. Navigate to EDP.

Open your web browser, navigate to EDP [https://gasdata.fluxys.com/] and click on [Sign in]

2. Enter your email address	fluxys Balansys
Enter the email address that has been used to set up your account on the Fluxys platforms. After entering the email address, click the <b>Continue</b> button.	Email Address john.doe@imaginary-energies.com Continue
3. Click on "Forgot Password?"	Sign in with your email address Email Address john.doe@imaginary-energies.com Password First time login/Forgot Password? Password Sign in

4. Confirm email for which you want to modify the password	fluxys & BALANSYS Email Address John.doe@imaginary-energies.com
5. Enter your verification code Open your Authenticator app and enter the verification code. Then, click on Verify.	Enter the verification code from your Microsoft Authenticator app. Enter your code. Enter your code. Verify
<ul> <li>6. Choose your new password and confirm</li> <li>Once your password is chosen, click on Continue.</li> </ul>	fluxys BALANSYS New Password New Password Confirm New Password Confirm New Password Confirm New Password

# 2.4 Getting help & support

For any question relating to EDP, please contact your Fluxys point of contact.

# 2.5 Consult my info

Click on the user name. The following screen appears

USER INFORMATION	Change password			
User Id:	SimpsonL	E-mail:	and the second s	
First name:	Lisa	Mobile phone:		
Last name:	Simpson	Telephone:	12345	
Storage SPOC: Name: Albert2 Demo Email: costbold option Mobile phone: costbold option	allinipasa.	T	erminal SPOC:	Transmission SPOC: Name: Albert2 Demo Email Mobile phone 22

The external user can consult his user information, being:

- First name
- Last name
- User ID
- Telephone number
- Mobile phone number
- E-mail address

The user can also consult the information for the SPOCs of his BPA

- Name
- Mobile phone number
- E-mail address

# 3. Transmission & ZTP Trading Services

# 3.1 Capacities and Contracts

## 3.1.1 Portfolio

Via the Electronic Data Platform it is possible for the grid user to download his portfolio of contracted services.

	fluxys <sup>ੴ</sup>	Transmission & ZTP Trading Services	Storage	LNG terminalling	Administration
Ą	Capacities and Contra				
CAPACITIE	Portfolio     Overview of the booked transmission	services on the interconnection points, domestic po	pints and quality convers	ion services - private.	Offers     An offer groups a set of Services which Fluxys Belgium propos
ES AND COM	Capacities on Interconnec Overview of the contracted, available public.	tion Points and commercial maximum capacity at the Intercon	nection Points on a shor	t and long term basis -	Capacities on Quality Conversion Points Overview of the contracted, available and commercial maximum

Navigate towards "Capacities and Contracts" in the "Transmission & ZTP Trading Services" section on the Electronic Data Platform and select the "Portfolio" tab in order to consult the portfolio.

Booked capacities on interconnection- and domestic exit points	(download)
Transmission Services Portfolio	
1         Service Period           25/08/2014         31/12/9999	Export to File     Export to XML file     Export to file with Comma Separated Values (.CSV)
	Generate report

In the Portfolio screen the grid user can select to export his portfolio to a XML file or a CSV file. This export can be generated as of a specific date for an unlimited period or for a specific period.

Note that this is private data which is made available to a specific grid user only, with restricted use depending on the access rights granted to the user of the Electronic Data Platform, as detailed in Attachment G of the Access Code for Transmission.

### 3.1.2 Capacities on Interconnection Points

Fluxys publishes the contracted, available and commercial maximum capacities at every interconnection point on its network for the next 15 years.

- Firm Capacity: capacity that is guaranteed under all normal circumstances.
- Backhaul Capacity: offered at unidirectional interconnection points, in the opposite direction of the physical gas flow direction and is usable as long as the resulting physical flow remains in the physical direction of the interconnection point
- Interruptible Capacity: capacity with an interruption probability of 5% based on historical flows.

The following table explains the column names

CCF	Contracted Capacity Firm
ACF	Available Capacity Firm
CMCF	Commercial Maximum Capacity Firm
ССВ	Contracted Capacity Backhaul
ACB	Available Capacity Backhaul
СМСВ	Commercial Maximum Capacity Backhaul
CCI	Contracted Capacity Interruptible
ACI	Available Capacity Interruptible
CMCI	Commercial Maximum Capacity Interruptible

The set of interconnection points that can be chosen as parameter contains both the interconnection points valid in the former transmission model, and in the new entry-exit transmission model. By default all the interconnection points are checked.

The report shows for each day in the requested period only data for the interconnection points that are valid on that day. <u>Attention, the download can only be done for blocks of 2 years</u>.

### 3.1.3 Capacities on Domestic Exit Points

Fluxys publishes the contracted, available and technical capacities at each Zone, H and L, of its network with the aggregated set of data for the supply points connected to this Zone.

The following table explains the column names

C	CCF	Contracted Capacity Firm
Α	ACF	Available Capacity Firm
T	C	Technical Capacity

### 3.1.4 Secondary Market Report

Capacities booked on the secondary market are reported in aggregated form, per interconnection point, direction and type of capacity. The types of capacities are firm, Backhaul and interruptible.

### 3.1.5 Capacities on Quality conversion Points

Fluxys publishes the contracted, available and commercial maximum capacities at every conversion point on its network.

CCF	Contracted Capacity Firm
ACF	Available Capacity Firm
CMCF	Commercial Maximum Capacity Firm
CCI	Contracted Capacity Interruptible
ACI	Available Capacity Interruptible
CMCI	Commercial Maximum Capacity Interruptible
DF	Demand Factor
SF	Seasonal Factor
MF	Maintenance Factor
IF	Interruption Factor

The following table explains the column names

#### 3.1.6 Congestion Management Procedures

Congestion occurs when a Service Request for Firm Transmission Services at an Interconnection Point or an End User Domestic Exit Point cannot be confirmed due to lack of available Firm Transmission Services and if none of proactive congestion management measures or any other alternatives envisaged between TSO and Grid User have provided for an acceptable solution.

#### 3.1.6.1 Unsuccessful requests for firm capacity

Occurrence of unsuccessful, legally valid requests for firm capacity products with a duration of one month or longer including the number and volume of the unsuccessful requests.

#### 3.1.6.2 Auctions cleared at prices higher than the reserve price

In the case of auctions, where and when firm capacity products with a duration of one month or longer have cleared at prices higher than the reserve price.

#### 3.1.6.3 No firm capacity offer

Where and when no firm capacity product with a duration of one month or longer has been offered in the regular allocation process.

#### 3.1.6.4 Capacity made available through congestion management procedures

Total capacity made available through the application of the congestion-management procedures.

## 3.1.7 Allocation Agreements 🔳

In this section, Allocation Agreements are listed, available for consultation and approval. In the folder tree a distinction is made between:

To Approve : List of the AA to be approved

Approved :

Allocation Agreements which have been signed by all involved parties are listed and available for consultation in this section.

The filter panel gives the possibility to select Allocation Agreements which are relevant for a specific period.

If the user wants to display the Allocation Agreement for a specific period, he should first select the correct period in the tree under the name of the Domestic Exit Point.

	fluxys	Transmission & ZTP Trading S	Services Sta	orage	LNG terminalling	Administration
Ą	Allocation Agreements					
ALLOCATION	Allocation Agreements		Please select an a	igreement to v	iew its details.	
AGREEM	Period From: Period To:					
ENTS	Search: Filter					
	<ul> <li>To Approve</li> <li>Approved</li> <li>3M BELGIUM ZWIJNDRECHT</li> <li>1/01/2015 - 31/12/2015</li> </ul>					
	<ul> <li>ADPO NV BEVEREN (007157)</li> <li>▶ 1/01/2024 - 31/12/2024</li> <li>▶ 1/01/2024 - 31/12/2024</li> </ul>					

The following information is then available:

#### 3.1.7.1 <u>Agreement details :</u>

Validity Period: the period for which the Allocation Agreement is concluded by all involved parties Approval deadline: the deadline to meet for the approval of the Allocation Agreement (only relevant if not already approved by all involved parties)

Station Schema: a schema of the receiving station of the Domestic Exit Point (by clicking on the image, the window enlarges)

Allocation rule description: the description of the rule which will be applied to calculate the allocation to the Grid User(s) of the Quantities of Natural Gas offtaken at the Domestic Exit Point.

#### 3.1.7.2 Agreement Approval:

The involved parties: Grid User and Final Costumer The status of the approval: Approved (to be approved and refused are status which are available)

# 3.2 Maintenance

#### 3.2.1 Works and interventions impact on Interconnection Points

Fluxys publishes the works and interventions impact on interconnection points, describing the following information:

IP	Interconnection Point
Sub Grid	Subgrid to which the interconnection point belongs
Direction	Direction of gas flow
Gas day	Gas day
Gas Hour	Gas hour
CCFB	Contracted Capacity Firm & Backhaul
PIFB	Planned Interruption Firm & Backhaul

UIFB	Unplanned Interruption Firm & Backhaul
RCFB	Remaining Capacity Firm & Backhaul
RCFB %	Remaining Capacity Firm & Backhaul %
CCI	Contracted Capacity Interruptible
PII	Planned Interruption Interruptible
All	Actual Interruption Interruptible
RCI	Remaining Capacity Interruptible
RCI %	Remaining Capacity Interruptible %
Nature	Nature of Work Maintenance

#### 3.2.2 Works and interventions impact on Domestic Exit Points

Overview of the contracted, available and commercial maximum capacity at the Interconnection Points on long term basis

TSO and Grid User agree to cooperate in the planning and scheduling of any installations, connections, disconnections and removals of relevant facilities so as to facilitate necessary maintenance, repair and replacement works, to reduce necessary interruption periods and to minimize interruptions.

Maintenance, repair or replacement works affecting the MTSRf and/or MTSRb shall be limited in duration and instances insofar as reasonably possible.

#### 3.2.3 Works and interventions impact on Quality Conversion

Overview of works and interventions planned for the current year on the Fluxys Grid that could affect the execution of your transmission contracts on the Quality Conversion Services.

The TSO shall, in accordance with the Standard Transmission Agreement, notify the Grid User on maintenance and its influence on the Real Quality Conversion Capacity of the different Quality Conversion Services.

#### 3.2.4 Verification of Measurement Equipment at Interconnection 💷

Planned Verification of Measurements Equipment at Interconnection Points (in accordance with the Access Code for Transmission, Attachment D: Metering Procedures, section 7.1).

# 3.3 Metering

#### 3.3.1 Daily refreshed measurements on nodes and lines 🔳

The Measurements in this section are refreshed on a daily basis. The user can consult daily measurements on nodes or lines for a selected period (Short or long period (More than 1 month)). The nodes and lines for which the user has or had view rights are available in the treeview. The system will only return results for the selected lines/nodes if the user has view rights for the selected period.

In this case, precise selections are necessary via filters:

- Period: From ... to ....
- Show node level or by lines
- Select one or several nodes/lines/node configuration via the selection list

#### User Manual

Period From:		
Period To:		
O Show nodes		
Show lines		
O Show node con	figurations	
		^
		^
		^
		^
		^
		^
		^
		^
		^
		~

For each node or metering line for each day on the selected period, a line is displayed with the following measurements:

- The Flow Measurements: Volume, Energy, GCV, Pressure (absolute pressure expressed in Bara), Temperature, Gross Volume and Conv. Volume.
- The Gas Composition tab displays the measurements of the composition of the gas.
- The **Gas Characteristics** tab displays the measurements retrieved by the gas analysis: Density, Wobbe, NCV, Kref, CO2 EF, GCV and a validation status.
- The status field shows the validation status of the measurements:
- No Data
- **Raw** data are measurements that are not at all verified or validated
- Verified data means that a preliminary verification check has been done
- Validated data means that extra checks have been executed and that the measurement is considered as accountable

Please note that the all measurements are flow weighted averages (Except Volume and Energy).

The user can also export the measurement information for the selected period in different file formats:

- XML
- CSV (Comma delimited or semicolon delimited)
- Excel

#### 3.3.2 Hourly refreshed measurements on nodes and lines 🔳

The data is based on the new codification which makes it possible to visualize information on line- level for every type of metering configuration (e.g. 2 meters in series in one metering line).

When opening this section, the Hourly View with flow measurements for the last available hour is displayed for all the nodes.

Some filters are available:

• Date: At the top (just below the hourly, daily and monthly tabs) the date selector is located. The date shown is the gasday of the measurements displayed in the measurement grid. The last available report button will automatically select the

current day and hour.

Previous Day 🔇	03/09/2012 💟	🔊 Next Day	🖗 Last Available Report

- Show nodes: the measurements on node level
- Show lines: the measurements by lines
- All: No filter is applied.
- Node Type: Filter by border or by supply
- Search parameter:
  - Choice between "Name" or "Codification number"
  - Complete the box "Contains" with the exact "Codification number" or the exact name
  - Apply Filter



On the left hand side a bar with all the available hours in the selected gasday is presented. Clicking on a specific hour will select this hour and display the measurements of this hour in the measurements grid. When changing the gasday the first gashour of that day is selected.



The center of the screen shows all the flow measurements on the selected gasday and gashour. For each node or metering line, a line is displayed with the following measurements:

- The amount of **Volume** that flowed through the node or metering line (Converted to normal conditions (0°C and 1 atm))
- The amount of Energy that flowed through the node or metering line during this hour
- The GCV calculated from the gas flow. This value is calculated as the fraction of Energy/Volume.
- The **Pressure** of the gas (absolute pressure expressed in Bara)
- The **Temperature** of the gas
- The Gross Volume is the physical volume of the gas at measured conditions.
- The **VnConv** is the normalized Volume that is measured by the volume converter.
- For a metering line, the value **Weight/In Maintenance** indicates the weight of the line (-1/0/0,5/1). Some examples :
  - If a metering line is in maintenance or subcounting, the weight of the metering line will be '0'.
  - $_{\odot}$  If two meters are installed in the same meteringline, the weight will be '0.5'
- This makes that the metering results on node level are the summation of the consumptions (in Volume or Energy) of the different depending metering lines multiplied by their weight.
- The **Status** field shows the validation status of the measurements:
  - No Data
  - Raw data are measurements that are not at all verified or validated
  - Verified data means that a preliminary verification check has been done
  - Validated data means that extra checks have been executed and that the measurement is considered as accountable

Displ	ay Download			
Pr	evious Day 🔇 12/09/2	2022 💽 🔊 Nex	kt Day 🛷 Last	Available Repo
F	ilter Definition	Local Hours	Node/Line	Delivery Point
•	Show nodes Show lines	06:00 - 07:00 <u>07:00 - 08:00</u>		-
0	All	<u>08:00 - 09:00</u>		
0	Node type	<u>09:00 - 10:00</u>		
	Border 🗸	<u>10:00 - 11:00</u>		
0	Search parameter	<u>11:00 - 12:00</u>		
	Name 🗸	<u>12:00 - 13:00</u>		
	contains:	<u>13:00 - 14:00</u>		
		<u>14:00 - 15:00</u>		
		<u>15:00 - 16:00</u>		
	Apply Filter	<u> 16:00 - 17:00</u>		
		<u> 17:00 - 18:00</u>		
		<u> 18:00 - 19:00</u>		
		<u> 19:00 - 20:00</u>		

#### 3.3.2.1 Download

There are essentially two main options to download measurement information from the application:

- The user can download the information manually by using the Graphical User Interface.
- It is also possible to address the download feature directly by using the Download URL.

#### 3.3.2.2 Manual download by the user

The user can download the required information manually by navigating to the Download section for a certain gasday period on the filtered nodes and metering lines:

Hourly Flow Measurements on Node
 24/01/2024 Fluxer

- Hourly Flow Measurements on Metering Line
- Corrected Hourly Flow Measurements on Node
- Corrected Hourly Flow Measurements on Metering Line
- Hourly Gas Analysis on Node
- Daily Gas Analysis on Node

It is possible to choose between two different file formats:

- CSV
- XML

#### 3.3.2.3 Selection in manual download

#### In general:

If you do not filter on a node or metering line (in the cell 'containing'), the selected period <u>must not exceed 1 month</u>. The downloaded file will contain all the data of the nodes/metering lines for which you have view rights.

Containing In Internal Codification Number of Internal Dusiness Identifie	Containing	in Internal Codification Number or Internal Business Identifier
---	------------	---

If you filter on a part of a node or metering line (some characters in the cell 'containing'), the selected period <u>must not exceed 1 month</u>. The downloaded file will contain all the data of the nodes/metering lines which contain the characters you put in the filter and for which you have view rights.

#### Some particularities:

If you select 'Hourly Flow Measurements <u>on Node'</u> or 'Hourly Gas Analysis <u>on Node'</u>, and you <u>filter</u> <u>on the exact codification of a node</u> (in cell 'containing').<u>The selected period can be up to 1 year</u>.

Attention: The codification must be <u>absolutely accurate</u> (You can find the codification for nodes and lines in the display section or in topology section).

The codification	(for node)	must consist of	5 digits +	N + 2 digits:	12345-N12
------------------	------------	-----------------	------------	---------------	-----------

۲	Hourly F	low Measurement on N	ode							
0	Hourly F	low Measurement on M	etering Line							
0	Correcte	d Hourly Flow Measure	ment on Noc	e						
0	Correcte	d Hourly Flow Measure	ment on Met	ering Lin	e					
0	Hourly C	as Analysis on Node								
0	Daily Ga	as Analysis on Node								
Conta	aining	22222-N01	in Nod	e or Met	ering Line	Codificatio	n Number			
Color Million				3	~	to	21/12/2017	hour	24	
From		21/12/2017 💟	hour				2111212011	11212	1 TE (1	
From	nat Type	21/12/2017 🔽	hour				2111212011		- 1	

If you select 'Hourly Flow Measurements <u>on Metering Line'</u>, and you <u>filter on the exact</u> <u>codification of a line</u> (in cell 'containing').<u>The selected period can be up to 1 year</u>. The codification must be <u>absolutely accurate</u> (You can find the codification for nodes and lines in the display section or in topology section).

The codification (for line) must consist of 5 digits + N + 2 digits + / + 1 letter + / + the number of the line: 12345-N12/A/1

0	Hourly Flow Measurement on Node
۲	Hourly Flow Measurement on Metering Line
0	Corrected Hourly Flow Measurement on Node
0	Corrected Hourly Flow Measurement on Metering Line
0	Hourly Gas Analysis on Node
0	
	Daily Gas Analysis on Node
Contair	
Contair From	
From	ing 22222-N01/A/1 in Node or Metering Line Codification Number
	ing 22222-N01/A/1 in Node or Metering Line Codification Number

The function "Corrected Hourly Flow Measurements" returns all measurement corrections that have been made during the selected period (Ex: If Fluxys makes corrections on the Measurements of 28/01/2015 on respectively 09.02.2015 and 03.03.2015, these changes will be visible by selecting respectively the period from 01.02.2015 to 28.02.2015 and 01.03.2015 to 31.03.2015).

#### 3.3.2.4 Automatic download by an application

See chapter 6.

6 new downloads based on new codification are available.

#### 3.3.3 Topology 💷

This section provides information about the metering topology elements on which the user has the right to view data. The view rights are derived from the contracts which are based on Gas Exchange Locations. These gas exchange locations can be subdivided in a set of Nodes.

#### 3.3.3.1 Content

Gel Topology Node Topology

A Gas Exchange Location (GEL) consists of node memberships. A node can be a member of a GEL during a given time period. The membership has a weight with which the measurements of the respective node are aggregated in the result for the associated GEL. All this information can be found per GEL under the button **GEL Topology** (This option is accessible to limited users (It depends of their contractual link with Fluxys)).

Under the **Node Topology** button a drop-down box can be found with all the nodes on which the user has the right to view data.

The whole history of the node and the underlying metering lines are shown after selecting a node. The node history consists of the name changes and the EAN number.

The metering line history consists of the measured before status, operational status and the EAN number.

The data is based on the old and the <u>new codification</u> which makes it possible to visualize information on line-level for every type of metering configuration (e.g. 2 meters in series in one metering line).

#### 3.3.3.2 Download

There are essentially two main options to download topology information from the application:

- The user can download the information manually by using the Graphical User Interface.
- It is also possible to address the download feature directly by using the Download URL.

#### 3.3.3.3 Manual download by the user

The user can download the required information manually by navigating to the Download section. This section provides selections to download the whole history of either:

- Gas Exchange Location Topology: for all GELs on which the user has the right to view data
- Node Topology: for all GELs on which the user has the right to view data

It is possible to choose between two different file formats:

- CSV
- XML

#### 3.3.3.4 Automatic download by an application

See chapter 7.

#### 3.3.4 Further remarks about Metering and Topology

#### 3.3.4.1 Aggregation of measurements

Since a Gas Exchange Location (GEL) consists of a set of nodes and a node consists of a set of metering lines, the measurements for a complete GEL should be aggregated.

We advise to start the aggregation for a complete GEL from the set of nodes and not from the set of metering lines! A metering line can go 'In Maintenance' or the measurements can already be accounted in the measurements of another metering line, i.e. 'Measured Before'.

The measurements on the node level take these two parameters into account and can therefore readily be used for the aggregations.

Example What is the total energy on gas exchange location A at gas day X, hour Y?

The topology of gas exchange location A at gas day X and hour Y is:

- Membership 1: Node n1, weight w1 = -1
- Membership 2: Node n2, weight  $w^2 = -1$
- Membership 3: Node n3, weight w3 = 1

The measurements of nodes n1, n2 and n3 at gas day X and hour Y are: - Node n1: e1 = 100 kWh

```
Node n2: e2 = 200 kWh
Node n3: e3 = 500 kWh
Calculation
Total energy (e) = e1 * w1 + e2 *w2 + e3*w3
= 100*-1 + 200*-1 + 500*1
= 200 kWh
```

#### 3.3.4.2 Real Time Measurement on Interconnection Points 🧧

The Real-time Data screen offers an overview of the last available real-time metering data on GELs for which the current user has a valid real-time metering contract. The user can select to narrow.

down the shown data to a single GEL. Once the screen is opened the available data can be updated by clicking on the Refresh button.



#### 3.3.4.3 GEL selection

All GELs available to the user are listed in a drop-down menu. By selecting a single GEL from the list the shown data will be narrowed down to all data belonging to the selected GEL. To return to the general overview the user can select the "All GELs" option from the drop-down menu.

#### 3.3.4.4 Requesting an update

The real-time data shown on the screen is not updated automatically after opening the screen. However, in the database the available data will be refreshed with the latest available data every six minutes.

By clicking the Refresh button the user can ask for an update. If the available data has been updated, the most recent version of the metering data will be displayed. The application does not keep track of the real-time value history, so previously shown data is lost after updating the screen.

#### 3.3.4.5 Download web service

See chapter 6.

#### 3.3.5 Wobbe Index 💷

This report enables Grid Users to monitor the gas quality of the gas they import into the Belgian network. The gas quality of this imported gas should be in balance with the gas quality of the gas that is exported to the UK.

Values for gashours larger than the current gashour are not available, meaning that future gashours and gasdays will be suppressed.

The value for the Wobbe at a certain point and certain gashour can change over time. At anytime the best available value is published.

All Wobbe values are defined on Interconnection Points with underlying nodes, except for 2 values on the H-zone and on the L-zone which are defined as the weighted average of the Wobbe values for all Interconnection Points of such Zones.

Grid Users receive the Wobbe Index in a data format and also downloads are made available. The values contain 2 decimal digits.

#### <u>Data format</u>

fluxys	Transmis	sion & Z1	[P Tradin	g Service	25	Sto	rage		LNG term	ninalling		Admin	istration					
Wobbe Index																		
Display Download																		
Previous Day () 28/01/20	24		Next E	bay (	🌮 Last /	wailable	Report	29/01/	2024 08:	52								
Wobbe Index (kWh/m³)	06-07		08-09															23-00
BHZONE	14.87	14.87	14.87	14.88	14.87	14.87	14.87	14.88	14.87	14.88	14.88	14.88	14.88	14.87	14.87	14.87	14.86	14.86
BLZONE	12.90	12.90	12.90	12.91	12.92	12.92	12.92	12.92	12.92	12.92	12.92	12.92	12.91	12.91	12.91	12.92	12.91	12.91
Alveringem (Virtualys)	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.04	15.05	15.05
Blaregnies L	12.90	12.90	12.90	12.90	12.90	12.91	12.91	12.91	12.91	12.91	12.92	12.92	12.92	12.92	12.91	12.91	12.91	12.91
								44.70	14.70	44.74	44.70	44.70	44.70		44.70	14.72	14.72	14.72
Blaregnies Segeo (Virtualys)	14.72	14.72	14.71	14.71	14.72	14.72	14.72	14.72	14.72	14.71	14.72	14.72	14.72	14.71	14.72	14.72	14.72	14.72

#### Downloads:

Using the download functionality the Grid User can download, either the latest available report, or he can make a selection of a date range which include the latest available report.

Downloads are made available in CSV and XML formats.

#### 3.3.6 Metering Index Update 💷

The End-user will have the possibility on one hand to encode the indexreadings of the counter and the convertor, and on the other hand to visualize the indexreadings made by the Fluxys agent.

Select a Line								
	21197/3 ZANDVLIET PC	OWER ANTWERPEN	(ZANOVLIET) - 2119	7-N01/A/3 New	Index			
	Counter:	Date:	Time: 06.00	Index:		m <sup>e</sup> (D)	Delta: m*(b)	
2119/83 ZANDVLJE I POWER ANTWERPEN (ZANDVLJET)	Converter:	Date:	Time: 06:00	Index :		m*(b)	Delta; m*(b)	
21197/4 ZANDVLIET POWER ANTWERPEN (ZANDVLIET)								
	Last Indices counter				Last Indices Converter			
	Time Stamp		Detta (m*(0))				Delta (m'(b))	
	25/05/2016 03:00	47000	-76456	Damien André	25/05/2016 03:00	7561600	6907279	Damien An
	24/05/2016 01:00	123456	76887	TEst WCF	24/05/2016 03:24	654321	-6907033	Test WCF
	27/04/2015 03 52	46569	0	Fluxys Agent	27/04/2015 03:52	7561354	0	Fluxys Ager
	29/10/2014 11:04	46569	0	Fluxys Agent	29/10/2014 11:04	7561354	1	Fluxys Agen
					22222022777522237	7561353	12539	Fluxys Agen
	12/06/2014 12:05	46569	210	Fluxys Agent	12/06/2014 12:06	1001000	7.0	
		46569 46359	210 0	Fluxys Agent Fluxys Agent	12/06/2014 12:06	7548814	19	Fluxys Ager
	12/06/2014 12:05							Fluxys Agen
	12/06/2014 12:05 12/06/2014 09:24	46359	0	Fluxys Agent	12/06/2014 09:24	7548814	19	

If you only want to enter a counter index, the date for convertor should be 'unchecked'. If not, an alarm will appear indicating that a mandatory field was not filled.

			New Index
Counter:	Date: 06/10/2016 Time: 06:00	Index: 123457	m³(b)
Converter:	Date: 5/10/2016 Time: 06:00	Index :	m³(n)
	0 Oct 🔽 2016 🔽 0		

Do not forget to update your rights (new created role: 'Metering index encoder') to have access to encode the metering index.

Update Rights					
User Id: First Name:	DAN_BASF				
Last Name:	André				L.s.
Transmission Roles:	Reader	Composer	Validator	AA Validator Metering Index Encoder	Automated Download Agent
Storage Roles: LNG Terminalling Roles:	Reader     Reader	Composer	☐ Validator ☐ Validator	Automated Download Agent     Automated Download Agent	
					Update Cancel

If the encoding window below does not appear, it means that the selected line is no longer active in our systems (You can check the status of your station / line – In Operation or not - in the Topology section of our platform).

	21197/3 ZANDVLIET PO	OWER ANTWERPEN	(ZANOVLIET) - 2119	7-N01/A/3				
				New	Index			
	Counter:	Date:	Time: 06.00	Index:		m*(D)	Delta: m*(b)	
	and the second second		06:00					
21197/4 ZANDVLIET POWER ANTWERPEN (ZANDVLIET) 21197/4 ZANDVLIET POWER ANTWERPEN (ZANDVLIET)	Converter:	Date:	Time: 08:00	Index :		m*(b)	Delta: m*(b)	
	Last Indices counter				Last Indices Converte			
	Time Stamp							
	25/05/2016 03:00	47000	-76456	Damien André	25/05/2016 03:00	7561600	6907279	Damien And
	24/05/2016 01:00	123456	76887	TEst WCF	24/05/2016 03:24	654321	-6907033	Test WCF
	27/04/2015 03 52	46569	0	Fluxys Agent	27/04/2015 03:52	7561354	0	Fluxys Agen
	29/10/2014 11:04	46569	0	Fluxys Agent	29/10/2014 11:04	7561354	1	Fluxys Agen
		46569	210	Fluxys Agent	12/06/2014 12:06	7561353	12539	Fluxys Agen
	12/06/2014 12:05							
	12/06/2014 12:05 12/06/2014 09:24	46359	Ø	Fluxys Agent	12/06/2014 09:24	7548814	19	Fluxys Agen
			0	Fluxys Agent Fluxys Agent	12/06/2014 09:24 08/05/2014 03:09	7548814 7548795	19 0	
	12/06/2014 09:24	46359						Fluxys Agent Fluxys Agent Fluxys Agent

You can download the Metering Index Update - User manual by clicking on 🞴

#### <u>Remarks :</u>

- We recommend a monthly encoding of your indexes (in the first 5 days of the month) for the optimization of our data verification flow (cfr. Operational Procedures (annex to connection agreement § 5.1.7) <u>https://www.fluxys.com/en/products-services/empowering- you/termsconditions/tandc\_fluxys-belgium-connection-end-user</u>)
- When your index is encoded, you can see the delta between the 2 last indexations. If the delta is 'NA' (negative delta), please check that your encoding is correct. If yes, please contact <u>contract.accounting@fluxys.com</u>

- You can find in the summary table a column 'Rejected'. If this one is checked, this means that the index is not been taken into account. In this case, the delta is between the 2 last indexations 'not rejected'.

st Indices counter					Last Indices Converter				
02/01/2019 09:44	1304665	1261090			02/01/2019-09:50	355447940	53747940	9	
04/12/2018 09:38	1204665	1161090	*		04/12/2018 09:44	35544795	NA	÷	
02/03/2018 10:03	43575	41720		Fluxys Agent	02/03/2018 10:02	301700000	1633854		Fluxys Agent

### 3.3.7 Metrological Inspection Reports 🖬

Fluxys provides its customers the Metrological Inspection Reports via this tab.

# 3.4 Balancing and Allocations

### 3.4.1 Provisional Hourly Allocations 🖬

For a complete description of the Provisional Hourly Allocations data publication, please refer to the annex C1 of the <u>ACT</u>:

#### 3.4.1.1 Purpose

The 'Provisional Hourly Allocation Report' screen gives the ability to navigate through all of the user's Provisional Hourly Allocation reports of the past 3 years. The allocations are categorized by their respective gashour.

#### 3.4.1.2 Published data

For each gashour a list of all provisional allocations is given. Every allocation detail concludes the gashour and gasday, the shipper account, the EDIGAS-code of the location and the allocation value (expressed in kWh).

#### 3.4.1.3 Access to publications

The provisional hourly allocations can be accessed in three different ways: via the display section, the download section and via a download URL.

The display section allows the grid user to view and consult the provisional hourly allocations online and the download section and download URL give the grid user the ability to download the available allocations in different file formats for further usage.

#### 3.4.1.4 Display section

The last available Provisional Hourly Allocation Report will be displayed by default.

If the user wants to display the allocations for a different gashour, then he should first select the correct gasday with the calendar tool at the top left corner of the screen. By default the Allocations first gashour of the day is displayed. Then the correct gashour can be chosen from the bar on the left side of the screen.



Additionally to the allocation data, the generation date and time of the report is displayed on top of the screen.

#### 3.4.1.5 Download section

To manually download provisional hourly allocations, the user should select the download tab. The download screen gives two options to download the provisional hourly allocations. The gasday or range of gasdays and the output file format can be chosen by the user.

#### Date range selection:

- Last available report
  - This option returns the provisional hourly allocations for the last gasday.
- Date range:

Select all the gasdays starting at gasday 'From' until gasday 'To'. The FROM date may not be later in time than the TO date and the maximum date range is limited to one week. The screen automatically changes the FROM or TO date if the maximum date range of one week is exceeded.

Output File Type Selection:

Three file types are available for manual download:

- CSV
- XML

							_		
)isplay	Download								
Date I	lange Selection								
0	The last available Report								
۲	Select from a date range:								
	From 03/09/2012 To	03/0	9/2012		-				
		٩			mber	, 201		•	
Outpu	t File Type Selection				Th	Fr	Sa	Su	
Outpu	t File Type Selection	Mo	Tu	We					
Outpu	t File Type Selection CSV Format		<b>Tu</b> 28	<b>We</b> 29	30	31	1	2	
۲	CSV Format					31 7		1000	
		27	28 4	29	30			9	
۲	CSV Format	27 3	28 4	29 5	30 6	7	8	9 16 23	
۲	CSV Format	27 3 10	28 4 11 18	29 5 12 19	30 6 13 20	7 14	8 15	9 16	15, 2

After the user has set the right parameters to download the desired Provisional Hourly Allocations and clicked the Download button, the File Download screen pops up, giving him/her the choice to directly open the file, or to save it.

	••••	isionalHourlyA		03 20120905.csv
	2	pplication, 9,95		.05_20120505.030
	From: g	asdatadvi.fluxy	s.com	
		Open	Save	Cancel
~	Alled - Ed E		he well enned	files can potentially

#### 3.4.1.6 Automatic download URL

See chapter 7.

# 3.4.2 Imbalance Smoothing Allocation 🖬

The Imbalance Smoothing Allocation publication holds hourly Imbalance Smoothing Allocations for a specific gasday.

Grid Users receive the Imbalance Smoothing Allocations for the H-zone depending on their activities in a data format and also downloads are made available.

This publication is published every day around 11h30 CET with the latest values for the upcoming 4 gasdays. All values are rounded to

1kWh. <u>Data format</u>

	fluxys <sup>C</sup>	Trading Services Storage	LNG terminalling	Administration
÷	Imbalance Smoothing Allocation			
IMBALANCE	Display Download	Next Day 🔗 Last Available Repr	ort 17/09/2024 10:13	
SMOOTHING	Local Hours	Imbalance Smoothing Alloca		01/01/0001 00:00:00
ALLOCATION	$\begin{array}{c} 06:00-07:00\\ 07:00-08:00\\ 08:00-09:00\\ 09:00-10:00\\ 11:00\\ 11:00\\ 12:00-13:00\\ 13:00-14:00\\ 14:00-15:00\\ 15:00-15:00\\ 15:00-16:00\\ 15:00-17:00\\ 17:00-18:00\\ 18:00-19:00\\ 18:00-20:00\\ 12:00-21:00\\ 20:00-21:00\\ \end{array}$			207 700 350 940 326 913 285 494 181 977 198 797 140 829 56 496 12 607 - 3 937 69 935 37 927 14 425 28 595

#### Downloads:

Using the download functionality the Grid User can download, either the latest available report, or he can make a selection of a date range which include the latest available report.

Downloads are made available in CSV and XML formats.

	f	luxy	Transmission & ZTP Trading Services Storage LNG terminalling Administration
÷		Imbalance	Smoothing Allocation
IMBALAN		Display	Download
ANCE S		Date R	lange Selection
≤ 0		۲	The last available Report
OTHIN		0	Select from a date range:
ര			From 29/01/2024 To 29/01/2024
ALLOCATION		Outpu	t File Type Selection
NOI.		۲	CSV Format
		0	XML Format
			Download

#### 3.4.3 Temperatures

#### Daily Equivalent Temperature

Both forecasted and realized values are made available for system users to calculate their tolerances in the balancing system of Fluxys.

The Daily Equivalent Temperature is the sum of 60% of the temperature of Day D, 30% of D-1 and 10% of D-2. The forecasted daily equivalent temperature is based on the latest available realized temperatures and the forecasted daily temperatures.

#### Degree-day Temperature

The Degree-day Temperature is a measurement reflecting the demand for energy needed to heat buildings.

Degree-day Temperatures are defined relative to the base temperature of 16.5°C: the outside temperature above which a building needs no heating. If the average daily temperature is lower than the base temperature, the degree day temperature is the difference between both:

```
Example 1: average daily temperature = - 5°C Degree-day
temperature = 21.5 Example 2: average daily temperature = 5°C
Degree-day temperature =
```

11.5

If the average daily temperature is equal to or higher than the base temperature, the degree day temperature is zero:

Example 3: average daily temperature = 20°C Degree-day temperature = 0

FDET (°C)	Forecasted Daily Equivalent Temperature
RDET (°C)	Realized Daily Equivalent Temperature
DD (°C)	Degree Days
CDD (°C)	Cumulated Degree Days (start= 1st of
	October)

#### 3.4.4 Flow data – Allocations for previous Gas Years

The history of daily allocations for interconnection point in entry and exit-mode for period 2005-2011.

# 3.5 Flow Data

#### 3.5.1 Nominations and Flows on Interconnection Points

Day-Ahead nominations	DAN	The aggregated quantities of gas nominated by all system users for the following gas day at the first nomination window closure at 14.00h
Final Nominations	FN	The aggregated quantities of gas ultimately nominated by all system users for the gas hour/day. These nominations have not yet been confirmed, so they do not take into account any possible restrictions (e.g. constraints, exceeding capacity,)
Final Confirmations	FC	The aggregated quantities of gas ultimately nominated by all system users for the gas hour/day. These nominations have been matched and confirmed by the TSO.
Allocations	Alloc	Per gas day and per interconnection point the aggregated quantities of gas allocated to all system users having

		nominated gas quantities. Allocations at the interconnection points are provided separately for entry and exit.
Physical Flow	PF	The metered flow at the interconnection point. The data of the Physical Flow is reported on the entry- direction of every Interconnection Point. The sign indicates the direction of the flow, a positive value for incoming borders into the Fluxys- grid and a negative value for outgoing flows.
Measured Gross Calorific Value	GCV	The conversion factor between m <sup>3</sup> (n) and kWh expressed in kWh/m <sup>3</sup> (n)

## 3.5.2 Nominations and Flows on Domestic Exit Points

Nature	Nature	Consumption (negative figure) : quantity consumed by an end-user Production (positive figure) : quantity produced by an end- user/production unit This are allocations. These quantities do not necessarily enter physically in the FLX' GRID
Day-Ahead nominations	DAN	The aggregated quantities of gas nominated by all system users for the following gas day at the first nomination window closure at 14.00h
Final Nominations	FN	The aggregated quantities of gas ultimately nominated by all system users for the gas hour/day. These nominations have not yet been confirmed, so they do not take into account any possible restrictions (e.g. constraints, exceeding capacity,)
Allocations	Alloc	The aggregated quantities of gas allocated to all system users having nominated gas quantities at the exit-points in Belgium, grouped by Client Type
Physical Flow	PF	The aggregated metered flow at the group of Client Type per Balancing Zone
Gross Calorific Value	GCV	The conversion factor between m <sup>3</sup> (n) and kWh expressed in kWh/m <sup>3</sup> (n)

# 3.6 Invoicing

# 3.6.1 Invoices 🖬

When the Invoices menu-item is clicked, the Invoices section will open.

	Reference for Summ					
<ul> <li>Entry/Exit Transmission Model</li> <li>2019</li> </ul>	6164/31254/110319		11/03/2019 - Summary	100 M		
<ul> <li>March</li> <li>11/03/2019 Overview</li> </ul>	Document nr	Description	Invoice	Invoice XML	Invoice Detail XML	Invoice Appendix
<ul> <li>Constanting Bill</li> <li>Constanting Bill</li> <li>Constanting Bill</li> <li>Constanting Bill</li> <li>Constanting Bill</li> </ul>	0201900473	11/03/2019 - Bill				
<ul> <li>✓ 11/02/2019 Overview</li> <li>▷ executives Bill</li> <li>▷ self-Bill</li> </ul>	0201990144	11/03/2019 - Self-	Bill 500			
▼ January						

In this section all the available invoices are listed in the folders in the left menu.

In the folder tree a distinction is made between

- Entry/Exit Transmission model (for invoices about months as from 10/2015)
- Transport & Transit Model (for invoices about months before 1/10/2012)
- Federal contribution (as from 1/04/2014)

The folders are sorted by the available invoicing dates. By opening a folder the invoices for this invoicing date will be displayed in the middle of the screen.

Note that if you click on the folder, the application will automatically display the first invoice underneath it.

#### 3.6.2 Other invoices – Fluxys Belgium 💷

This section of EDP gives access to private data concerning invoices and appendixes for non-regulated activities.

#### 3.6.3 Preliminary Allocation Details 🔳

Besides the fully validated allocation details (see 4.6.4), Fluxys also provides a preliminary version of the allocation details. A preliminary version contains the best information at the moment of publication but the data have not yet been fully validated.

#### 3.6.3.1 General Overview

In a drop-down menu near the top of the Consult Preliminary screen the user can select a month for which he wants to see the preliminary allocation details. The drop-down menu will list all months that have preliminary allocation details available. By default the most recent month is selected.

Activity Month:	07/2012 -

Once the month is selected, the preliminary allocation details for that month are shown. They can be downloaded separately, or with the button "download preliminary allocation details" one can download a zip file containing all the preliminary allocation details.

#### 3.6.3.2 Download

The user can choose between downloading a single allocation detail and downloading all allocation details for the selected month.

#### 3.6.3.3 Single file download

When the user selects the file he wants to download he can choose between immediately opening the file and saving the file to disk. The allocation detail is offered as a CSV file that can be viewed using Excel or notepad.

#### 3.6.3.4 Complete download

Again the user will get the choice between viewing and saving the file. When downloading a complete set of allocation details files, the user receives a .zip archive containing all CSV allocation details files for the selected month.

#### 3.6.4 Validated Allocation Details and ARS Capacity 🔳

As the filter option "All" is selected on the panel by default, the navigation panel shows all available invoicing months and allocation details versions. The user can use the Navigation Tree to select an allocation detail and view or download the document.

Fi	Iter Definition
0	All
۲	Activity Month 01/2016
0	Monthly Details Version Nr is
Ļ	Apply Filter
110-50	nthly Details Version Selection
	Allocation Details
	Transmission
11.2.1.2	ARS Capacity Calculation
	Invoicing date 10/05/2016
	<ul> <li>Invoicing date 11/04/2016</li> <li>Invoicing date 11/01/2016</li> </ul>
1	Expand All Collapse All

The user can modify the filter applied on the collection of available allocation details organized in the navigation tree. The allocation details are grouped per monthly details version number.

The Navigation Tree, the Filter Panel and the different downloading options will be discussed in the following sections.

## 3.6.4.1 Navigation Tree

Monthly Details Version Selection
🖃 😼 Allocation Details
🖃 🚞 New Transmission Model
🖃 🚞 Transmission
🖃 🗀 Invoicing date 10/09/2019
Monthly Details Version 2019060001
🖃 🧰 Invoicing date 12/08/2019
Monthly Details Version 2019050001
🖃 🗀 Invoicing date 10/07/2019
Monthly Details Version 2019040001
🖃 🗀 Invoicing date 11/06/2019
Monthly Details Version 2019030001
Monthly Details Version 2019010002
🗉 🗀 Invoicing date 10/05/2019
🗉 🗀 Invoicing date 10/04/2019

The navigation provides a tree structure of all invoicing dates (i.e. document date of the allocation details) of the last 3 years and the associated bundled/linked Monthly Details Version Numbers:

• Label 'Allocation Details'.

This navigation tree is built for the quick navigation through the archived collection of allocation details of the last 3 years. The filter above provides additional browsing facilities and is applicable on the tree content.

- Invoicing Dates (invoicing data available for the past 3 years). This level of the navigation tree contains the invoicing dates or document dates of the last 36 invoicing months.
- Monthly Details Version Number

The user can find all the Monthly Details Version Numbers that are attached/bundled/linked to a particular invoicing date or document date. If a Monthly Details Version Number has been selected in the navigation tree, the user will have the possibility to download all the allocation details associated with that particular Monthly Details Version Number, and related to the invoicing date of the previous level. All the related allocation details for a particular Monthly Details Version Number and Invoicing Month/Document date will be shown in the Allocation Details Download Panel to the right of the Navigation Tree. These particular allocation details can be downloaded separately or all together in a zip file.

#### 3.6.4.2 Filter Panel

Filter Definition	
All  Activity Month  09/2012	=> Only the Monthly Details Versions of Activity Month September 2012 are shown in the navigation tree, even though the invoicing dates contain other Monthly Details Versions
Monthly Details Version Nr is	

The Filter Panel gives the user the possibility to filter/limit the available Monthly Details Version

Numbers in the navigation tree for easy and quick navigation. After applying a desired filteroption by selecting the preferred filter option and clicking the "Apply Filter" button, this option is highlighted. The filter panel consists of the following criteria/options.

• All

If this option is chosen, no filter is applied. The option "All" gives all the available Monthly Details Version Numbers grouped by the Invoicing Date (=document date) to which they are linked/bundled.

• Activity Month

This filter criterion gives the user the option to restrict the available Monthly Details Version Numbers shown in the navigation tree to a pre-defined Activity Month in the combo-box.

• Monthly Details Version Number

This option offers the possibility to search and request a specific Monthly Details Version Number that fully matches the expression entered in the corresponding editbox. As so, the user can limit the Monthly Details Version Numbers shown in the navigation tree to one particular version.

#### 3.6.4.3 Download

Essentially, there are two different ways in which the download features of the application can be used:

- Download the desired information through the Graphical User Interface.
- Address the download feature directly by using the Download URL.

#### 3.6.4.3.1 Manual download by the user

The user can download the allocation details of a selected invoicing date or linked to the selected Monthly Details Version Number by navigating to the desired invoicing month and Monthly Details Version Number.

If a Monthly Details Version Number has been selected in the navigation tree, all the related allocation details for a particular Monthly Details Version Number and Invoicing Date/Document Date are shown in the Allocation Details Download Panel to the right of the Navigation Tree.



The user has the possibility to choose the granularity of the group of allocation details to download:

- A particular single allocation detail can be downloaded by clicking the download button in front of the associated allocation detail line. Subsequently, this allocation detail file is downloaded as a CSV file which can be opened with either Notepad or Excel, and/or can also be saved to a local drive.
- All the allocation details related to a particular Monthly Details Version Number can be downloaded by selecting the option "Download this Monthly Details Version" and clicking the "Start Download" button. This bundle of allocation details is downloaded as a ZIP file containing all the allocation details in CSV file format.
- The download of all the allocation details of all the allocation details versions related to the selected invoicing date of the previous level is executed by selecting the option "Download entire Invoicing Date", and clicking the "Start Download Button". This group of allocation details is downloaded as a ZIP file containing all the allocation details in

CSV file format.

After the user has initiated a download, the File Download screen pops up giving him/her the choice to either directly open the file or save it.

#### 3.6.4.3.2 Automatic download by an application

See chapter 6.

## 3.6.5 Monthly Interconnection point account statement 🔳

Monthly interconnection point account statement for customers of Fluxys and published every month on Electronic Data Platform.

This report contains the monthly detail of Grid User activities on the BeLux Model.

## 3.6.6 Monthly ZTP Trading Services statement 🔳

Monthly allocation form (based on daily figures) which specify for each individual customer the specific ZTP Trading Services.

For every Month in the Year, a table will be produced for each Counterparty of the Customer containing daily delivery/redelivery information.

#### Important notice:

Please note that as from 01/10/2017 these reports will no longer exist. The history will remain available.

## 3.7 Nominations

## 3.7.1 Final Nominations for previous Gas Years

The history of final daily Shipper Nominations for interconnection point in entry and exit-mode for period 2005-2011.

## 3.8 Regulatory and contractual documents

## 3.8.1 Standard Transmission Agreement (<u>STA</u>)

The object of this Agreement is to lay down the terms and conditions upon which the Grid User will be able, on and from the Start Date, to subscribe to Services offered by the TSO and upon which the TSO shall perform such Services.

Subject to the terms and conditions of this Standard Transmission Agreement and the attachment C 1 of the Access Code for Transmission, TSO shall operate and maintain the Transmission Grid in accordance with the applicable regulation.

Subject to the terms and conditions of this Standard Transmission Agreement and the attachment A of the Access Code for Transmission, during the Contract Period, TSO shall provide Grid User with, and Grid User shall pay for, the Transmission Services as Grid User may have subscribed pursuant to any Services Confirmation and/or has been allocated, for the relevant Service Period and in accordance with any terms and conditions set out in the relevant Services Confirmation.

## 3.8.2 Access Code for Transmission (ACT)

The Access Code for Transmission consists of a standard set of terms and conditions governing regulated access to the Transmission Services offered by the Transmission System Operator to any Grid User on the Transmission Grid operated by Transmission System Operator in accordance with the code of conduct regarding access to the natural gas transmission network, storage facility for natural gas and LNG facility as approved by royal Decree of 23 December 2010 (the Code of Conduct).

The purpose of the Access Code for Transmission is to define the set of rules and procedures governing the Transmission Services offered by Transmission System Operator to Grid Users on the Transmission Grid. In addition to being governed by the Access Code for Transmission, the Transmission Services offered by Transmission System Operator to any Grid User on the Transmission Grid shall be subject to the terms and conditions set out in the Standard Transmission Agreement entered into between Transmission System Operator and any such Grid User.

#### 3.8.3 Tariffs

Overview <u>tariffs</u>, tariff methodology and tariff calculator.

#### 3.8.4 Capacity calculation methodology

Fluxys updates annually its ten-year indicative investment program. These actualizations take into account the evolution of the needs for supply of natural gas, requests for new connections and the new needs of the grid users as a result of market consultations.

In order to actualize the investment program, Fluxys performs simulations on the existing configuration of its grid, based on the data for the expected development as a result of the request for transmission capacity and the estimated evolution of capacities. Different scenarios are investigated taking into account different possible configuration of gas flow, peak consumption and the maximum grid imbalance.

These grid simulations on a largely bi-directional and highly interconnected grid remain a continuous and complex exercise. Based on these transmission grid simulations, the firmness of the capacity of the grid users and end-users can be guaranteed.

#### 3.8.5 Specific requirements of Interconnector Points

Operating conditions and quality requirements at Interconnection Points.

#### 3.8.6 Transmission Program (TP)

The transmission program describes certain information regarding the transmission model and the related services offered by Fluxys for the period running from the start of the Entry/Exit model until 2015 and gives an overview of the services offered by Fluxys Belgium. This transmission program is intended for information purposes and includes information that is set out in detail in the access code for transmission.

#### 3.8.7 Specifications on supply points 💷

The general specifications on the supply points describing the characteristics that the supplied natural gas must meet.

#### 3.8.8 Implementation information

Find here all <u>operational information</u> relating to the implementation of the entry/exit model (templates, data formats,..)

## 3.9 ZTP Trading Services

For a complete description of the <u>ZTP Trading Services</u>, please refer to our Fluxys website.

## 3.9.1 ZTP Traded Volumes

Overview of the ZTP trading volumes.

luxys C Transmissio	n & ZTP Trading Services	Storage	LNG terminalling	Administration
ZTP Trading Volumes				
Load Data				
	14 4 1	of 1 🕨 🕅 🖳	•	
from (incl.)	(For the explanation	n of the abbreviations, p	lease refer to the User Manua	0
01/09/2024	Gasday	ZTPH		
to (incl.):	(in kWh)	Traded Quantity (in kWh)	Physical Throughput (in kWh)	Churn
16/09/2024	01/09/2024	1 004 760 000	334 920 000	2,00
	02/09/2024		0	0,00
	03/09/2024	662 832 000	220 944 000	2,00
Load Data	04/09/2024	1 070 784 000	356 928 000	2,00
	05/09/2024	1 047 744 000	349 248 000	2,00
	06/09/2024	904 008 000	303 312 000	1,98
	07/09/2024	833 976 000	277 992 000	2,00
	08/09/2024	832 392 000	277 464 000	2,00
	09/09/2024	844 848 000	281 616 000	2,00
	10/09/2024	840 000	280 000	2,00
	11/09/2024	858 168 000	286 056 000	2,00

For a selected period, you can find the following data (by day) for trading points:

- The Traded quantity (kWh)
- The Physical Throughput (kWh)
- The Churn factor

#### 3.9.2 ZTP Trading Services Details (before 01-10-2023)

Overview of the ZTP Trading Services for customers of Fluxys Belgium (Imbalance Pooling Services, Imbalance Transfer Services, Implicit Allocation of Capacity, trade details).

_	
Period From	Load Data
01/09/2017	
Period To:	
05/09/2017	

For a selected period, you can find the following data (by hour) for trading points:

- The Imbalance Pooling Services quantity (kWh)
- The Implicit Allocations of Capacity quantity (kWh)
- The status (Forecasted and Provisional)
- The Trading details (kWh)

mbalance F	ooling and I	mplicit Alloc	ation of Capacity						1	,
			In	nbalance Pooling Servi	ce		Implicit Allo	cation of Capacity (Unl	balanced Regime)	
Gas Day	Gas Hour	Status			Imbalance Pooling of the Hourly Imbalance of the L Balancing Zone (kWh)	Net off Entry & Exit confirmations IZT, ZPT, LNG, Zeebrugge (kWh)	Sum Entry capacity IZT, ZPT, LNG, Zeebrugge (kWh)	Sum Exit capacity IZT, ZPT, LNG, Zeebrugge (kWh)	Cumulated implicitly allocated Entry Transmission Services for Zeebrugge (kWh)	Cumulated implicitly allocated Exit Transmission Services for Zeebrugge (kWh)

#### Trading Details

Gas Day	Gas Hour	Trading Service	From	То	Nominated Quantity (kWh)	Confirmed Quantity (kWh
						11 - S.

These data are updated every hour.

The user can download the information manually.

2	-
	XML file with report data
	CSV (comma delimited)
	CSV (semicolon delimited)
	PDF
	MHTML (web archive)
	Excel
	TIFF file
	Word

## 3.9.3 ZTP Trading Services Details (between 01-10-2023 and 31-08-2024) 💷

As from October 1st, 2023, the existing ZTP Physical and ZTP Notional Trading Services will be merged into a single ZTP Trading Service. By merging the ZTP Physical and the ZTP Notional Trading Services into the ZTP Trading Services, the Imbalance Transfer Service and the Imbalance Pooling Service, offered by Fluxys Belgium, will become obsolete and will no longer exists. For the avoidance of doubt, Implicit allocation of Entry and Exit Services on Zeebrugge IP will continue to be provided but will no longer be done under the Imbalance Transfer Service.

Overview of the ZTP Trading Services for customers of Fluxys Belgium.

Z	TP Trading Services Details
	Level Date
	Load Data
	annann.
	Period From:
	01/09/2017
	Period To:
	05/09/2017

For a selected period, you can find the following data (by hour) for trading points:

- The status (Forecasted and Provisional)
- The Trading details (kWh)
- The Imbalance Pooling quantity (kWh)

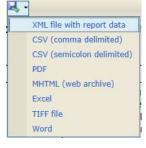
Trading Deta			1		1	
Gas Day	Gas Hour	Trading Service	From	То	Nominated Quantity (kWh)	Confirmed Quantity (kWh)

#### Imbalance Pooling

			Imbalance Po	
Gas Day	Gas Hour	Status	Imbalance Pooling of the Hourly Imbalance	
			of the H Balancing Zone (kWh)	of the L Balancing Zone (kWh)

These data are updated every hour.

The user can download the information manually.



## 3.9.4 ZTP Trading Services Details (as of 01-09-2024)

As from September 1st, 2024, in the context of redesign L Gas Market, there will be no more new data available anymore related to the L-gas.

Overview of the ZTP Trading Services for customers of Fluxys Belgium.

ZTP Trading	g Services Details
	Load Data
Period Fro	m:
01/09/201	7
Period To:	
05/09/201	7

For a selected period, you can find the following data (by hour) for trading points:

- The status (Forecasted and Provisional)
- The Trading details (kWh)
- The Imbalance Pooling quantity (kWh)

Trading Detai	ils			1		
Gas Day	Gas Hour	Trading Service	From	То	Nominated Quantity (kWh)	Confirmed Quantity (kWh)

#### Imbalance Pooling

			Imbalance Po	ooling Service
Gas Day	Gas Hour	Status	Imbalance Pooling of the Hourly Imbalance of the H Balancing Zone (kWh)	

## 3.10 REMIT messages

<u>Regulation on Energy Market</u> Integrity and <u>I</u>ransparency

<u>Purpose</u>: Publishing information to foster open and fair competition through reporting that may impact price and applies to market participants (including TSO's or Grid-Users who enters into transactions in wholesale energy markets).

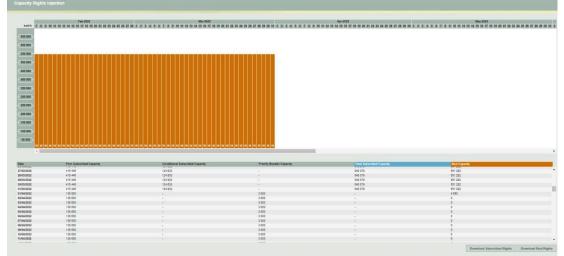
## 3.11 Notifications 💷

General commercial informations.

## 4 Storage

## 4.1 Capacities and Contracts

4.1.1 Capacity Rights Injection 🔳



#### Injection Capacity Consult Screen

#### Monthly view :

Information about injection capacities is retrieved for a period of 7 months: one month in the past and six months in the future.

The upper section presents a graph with the daily total subscribed and total real injection capacities for the selected plant over the timeline (horizontal axis), which has a daily basis (GasDays). The view displays 60 days and is scrollable. The default view when opening contains 3 days history and 56 days in the future.

The installation mode is displayed at the bottom of the bar chart. (I = Injection, S = Stop and W = Withdrawal)

The lower section shows the same information in a table, but with two extra columns: the firm subscribed and conditional subscribed injection capacities. A new column "Priority Booster Capacity" is added.

For dates starting from 01/04/22 there is no more data published for the columns "Conditional Subscribed Capacity" and "Subscribed Total Capacity".

All capacities are now reported in the unit kWh/h instead of the unit m³/h. For dates before 01/04/22 a conversion from the unit m³/h to the unit kWh/h is done:

- A fixed GCV of 11,3 kWh/m<sup>3</sup> is used for subscribed capacities.
- The measured GCV is used for real capacities.

The real injection capacities in withdrawal and stop mode are set to sum of all withdrawal rights The possible reverse nomination that will be confirmed depends on the actual forward flow.

The subscribed and real injection rights can be downloaded to an .xml file by pressing resp. the 'Download Subscribed Rights' button and the 'Download Real Rights' button. This allows you to save the .xml files on one of your drives.

In following link you can find an impression of how the XML looks like: <u>https://www.fluxys.com/en/products-services/empowering-you/operational-</u>

#### information/operational- information-storage-belgium

Section: Electronic Data Platform -> Downloads (Update xx/xx/xxxx) -> EDP -Description of Storage section.pdf The .xml files will provide, for the period for which the rights are available on the screen, essentially the same information as for withdrawal.

#### Daily view :

When clicking on a vertical bar representing one GasDay, the bottom half of the display changes to a detailed hourly view.

Several extra columns are also visible showing the correction factor: the maintenance, conditional, volume and account factors, the Day Ahead Market and the installation mode. Please note that the Day Ahead Market capacity is on Plant level, not on storage user level.

For dates starting from 01/04/22 the column "Conditional Factor (%)" is removed and replaced by the column "Claimed Factor (%)". For dates before 01/04/22, the Conditional Factor is still published.

The column "Account Factor (%)" is renamed to "Gis Exceeding Factor

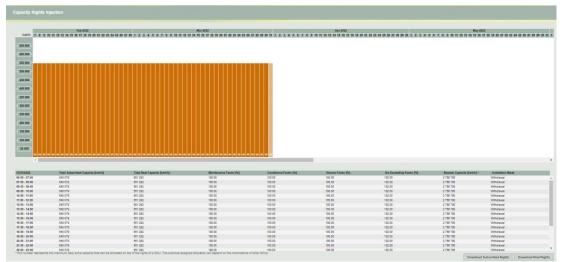
(%)". The column "DAM/NNS [m³/h]" is renamed to "Booster capacity

[kwh/h]".

All capacities are reported in the unit kWh/h instead of the unit  $m^3/h$ . For dates before 01/04/22 a conversion from the unit  $m^3/h$  to the unit kWh/h is done:

- A fixed GCV of 11,3 kWh/m<sup>3</sup> is used for subscribed capacities.
  - The measured GCV is used for real capacities.

DAM/NNS represents the maximum daily extra capacity that can be allocated on top of the rights of a SSU. The eventual assigned allocation will depend on the nominations of other SSUs.



Injection Capacity Consult Screen with Details (vertical bar clicked)

9 20 21 22 22 24 24 25 38 27 24 25 3
COLUMN TWO IS NOT THE OWNER.
te pe la

## 4.1.2 Capacity Rights Withdrawal 💷

Withdrawal Capacity Consult Screen

#### Monthly view :

Information about withdrawal capacities is retrieved for a period of 7 months: one month in the past and six months in the future.

The upper section presents a graph with the daily total subscribed and total real withdrawal capacities for the selected plant over the timeline (horizontal axis), which has a daily basis (GasDays). The view displays 60 days and is scrollable. The default view when opening contains 3 days history and 56 days in the future.

The installation mode is displayed at the bottom of the bar chart. (I = Injection, S = Stop and W = Withdrawal)

The lower section shows the same information in a table, but with two extra columns: the firm subscribed and conditional subscribed withdrawal capacities. A new column "Priority Booster Capacity" is added.

For dates starting from 01/04/22 there is no more data published for the columns "Conditional Subscribed Capacity" and "Subscribed Total Capacity".

All capacities are reported in the unit kWh instead of the unit m<sup>3</sup>.

For dates before 01/04/22 a conversion from the unit m<sup>3</sup>/h to the unit kWh/h is done:

- A fixed GCV of 11,3 kWh/m<sup>3</sup> is used for subscribed capacities.
- The measured GCV is used for real capacities.

The real withdrawal capacities in injection and stop mode are set to sum of all injection rights. The possible reverse nomination that will be confirmed depends on the actual forward flow.

The subscribed and real withdrawal rights can be downloaded to an .xml file by pressing resp. the 'Download Subscribed Rights' button and the 'Download Real Rights' button. This allows you to save the .xml files on one of your drives.

In following link you can find an impression of how the XML looks like: <u>https://www.fluxys.com/en/products-services/empowering-you/operational-information/operational-information-storage-belgium</u> Section: Electronic Data Platform -> Downloads (Update xx/xx/xxxx) -> EDP -Description of Storage section.pdf

#### <u>Daily view :</u>

When clicking on a vertical bar representing one GasDay the bottom half of the display changes to a detailed hourly view.

Several extra columns are also visible showing the correction factor: the maintenance,

conditional, volume and account factors, the Day Ahead Market and the installation mode. Please note that the Day Ahead Market capacity is on Plant level not on storage user level.

For dates starting from 01/04/22 the column "Conditional Factor (%)" is removed and replaced by the column "Claimed Factor (%)". For dates before 01/04/22, the Conditional Factor is still published.

The column "Account Factor (%)" is renamed to "Gis Exceeding Factor

(%)". The column "DAM/NNS [m<sup>3</sup>/h]" is renamed to "Booster capacity

[kwh/h]".

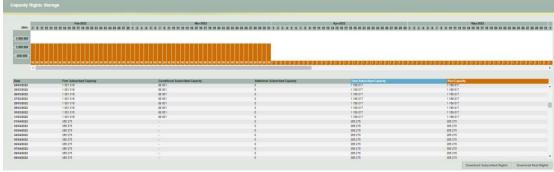
All capacities are reported in the unit kWh/h instead of the unit  $m^3/h$ . For dates before 01/04/22 a conversion from the unit  $m^3/h$  to the unit kWh/h is done:

- A fixed GCV of 11,3 kWh/m<sup>3</sup> is used for subscribed capacities.
  - The measured GCV is used for real capacities.

DAM/NNS represents the maximum daily extra capacity that can be allocated on top of the rights of a SSU. The eventual assigned allocation will depend on the nominations of other SSUs.

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Withdrawal Capacity Consult Screen with Details (vertical bar clicked)



4.1.3 Capacity Rights Storage 🖬

#### Storage Capacity Consult Screen

Information about storage capacities is retrieved for a period of 7 months: one month in the past and six months in the future.

The upper section presents a graph with the daily total subscribed and total real storage capacities for the selected plant over the time line (horizontal axis), which has a daily basis (GasDays). The view displays 60 days and is scrollable. The default view when opening contains 3 days history and 56 days in the future.

The installation mode is displayed at the bottom of the bar chart. (I = Injection, S = Stop and

W = Withdrawal).

The lower section shows the same information in a table, but with three extra columns: the firm subscribed, the conditional subscribed and the additional subscribed storage capacities. Note that values are given in MWh and are rounded.

Starting from 01/04/22 there is no data published for the column "Conditional Subscribed Capacity".

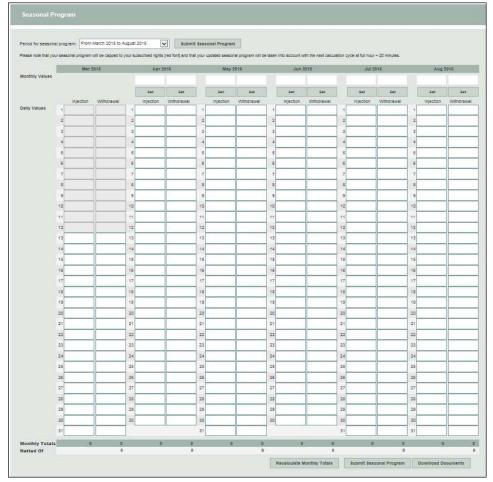
The subscribed and real storage rights can be downloaded to an .xml file by pressing resp. the 'Download Subscribed' button and the 'Download Real Rights' button. This allows you to save the

.xml files on one of your drives.

In following link you can find an impression of how the XML looks like: <u>https://www.fluxys.com/en/products-services/empowering-you/operational-</u>

information/operational- information-storage-belgium

Section: Electronic Data Platform -> Downloads (Update xx/xx/xxxx) -> EDP - Description of Storage section.pdf



## 4.1.4 Seasonal Program 💷

#### Seasonal Program Screen

The information on the seasonal program can be retrieved for 4 periods of 6 months each. The default period is the current month till 5 months in the future. The other periods are the past 6 month period and 2 future periods of 6 months each. The list box provides the possibility to select the period of choice.

The seasonal program in the past as well as full day + 1 cannot be edited anymore.

To define the seasonal program, just enter the amount in the Month Values field of the appropriate month and click the Set button underneath. This will cause the amount to be evenly distributed over the days of the month. It is also possible to enter daily amounts after which 'Recalculate Monthly Totals' has to be clicked to update the monthly total.

When the program has been entered or changed, the 'Submit Seasonal Program' button has to be clicked to save the amounts. While submitting the amounts, the amounts will be restricted to the subscribed rights. In case the original amounts are capped by this action, the definitive amounts are published in red font.

At the bottom of the columns, the Monthly Totals and the Netted Of values are displayed. The Netted Of value is calculated by subtracting the total withdrawal amount of the month from the total injection amount of that month.

The seasonal program can be downloaded to an .xml file by pressing the 'Download Documents' button. This allows you to save the .xml file on one of your drives. In following link you can find an impression of how the XML looks like: <u>https://www.fluxys.com/en/products-services/empowering-you/operational-information/operational-information-storage-belgium</u> Section: Electronic Data Platform -> Downloads (Update xx/xx/xxxx) -> EDP -Description of Storage section.pdf

		Injection			Withdrawal			Storage	
	Daily Maximum %	Daily Average %	Plant Daily Average %	Daily Maximum %	Daily Average %	Plant Daily Average %	GIS unused % forecast	GIS unused capacity (MWh)	Plant GIS % forecast
1/08/2012	0.00	0.00	0.00	0.00	0.00	0.00	27.20	0.00	27.20
2/08/2012	0.00	0.00	0.00	0.00	0.00	0.00	26.71	0.00	26.71
08/2012	0.00	0.00	0.00	0.00	0.00	0.00	26.22	0.00	26.22
108/2012	0.00	0.00	0.00	0.00	0.00	0.00	25.73	0.00	25.73
5/08/2012	0.00	0.00	0.00	0.00	0.00	0.00	-	-	-
\$108/2012	0.00	0.00	0.00	0.00	0.00	0.00	-		
//08/2012	0.00	0.00	0.00	0.00	0.00	0.00	-	-	-
8/08/2012	0.00	0.00	0.00	0.00	0.00	0.00	24.20	0.00	24.20
08/2012	0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	92.63
0/08/2012	0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	92.34
/08/2012	0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	92.06
208/2012	0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	91.78
08/2012	0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	91.50
108/2012	0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	91.21
5/08/2012	0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	90.93
5/08/2012	0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	90.65
7/08/2012	0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	90.37
8/08/2012	0.00	0.00	6.48	0.00	0.00	0.00	90.00	0.00	94.77
08/2012	0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	94.62
08/2012	0.00	0.00	0.11	0.00	0.00	0.00	90.00	0.00	93.37
1/08/2012	0.00	0.00	42.24	0.00	0.00	0.00	90.00	0.00	92.77
2/08/2012	0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	92.42
08/2012	0.00	0.00	0.05	0.00	0.00	0.00	90.00	0.00	91.82
108/2012	0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	91.22
5/08/2012	0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	90.62
8/08/2012	0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	90.02
/08/2012	0.00	0.00	0.00	0.00	0.00	0.00	89.42	0.00	89.42
08/2012	0.00	0.00	0.00	0.00	0.00	0.00	88.82	0.00	88.82
08/2012	0.00	0.00	0.00	0.00	0.00	0.00	88.22	0.00	88.22
0/08/2012	0.00	0.00	0.00	0.00	0.00	0.00	87.61	0.00	87.61
1/08/2012	0.00	0.00	0.00	0.00	0.00	0.00	87.01	0.00	87.01

## 4.1.5 Congestion Indicators 🔳

#### Indicators screen

This section represents a table with the congestion indicators for Injection, Withdrawal & Storage for each day of the current month.

It is possible to retrieve the congestion indicators for another month by using the previous month or next month buttons. A rolling window of 13 months will be provided; this means that only historic data till 13 months in the past can be consulted.

The data will be displayed as percentages, being a value between 0 and 100. Two significant decimal numbers will be shown.

If no data is available for a number of possible causes (f.e. before 15/4/2012, dates in the future), "--" is displayed.

The indicators for Injection are: Daily Maximum %, Daily Average % and Plant Daily Average %. The indicators for Withdrawal are: Daily Maximum %, Daily Average % and Plant Daily Average %. The indicators for Storage are: GIS Unused % Forecast, GIS Unused Capacity (MWh) and and Plant GIS % Forecast. The indicators can be downloaded to an .xml file by pressing the 'Download Documents' button. This allows you to save the .xml file on one of your drives.

In following link you can find an impression of how the XML looks like:

https://www.fluxys.com/en/products-services/empowering-you/operational-

information/operational- information-storage-belgium

Section: Electronic Data Platform -> Downloads (Update xx/xx/xxxx) -> EDP - Description of Storage section.pdf

Notes:

- 1. Additional storage capacity is not taken into account for the indicators (GIS utilization rates)
- 2. The storage indicators for the current day will be available from 16h15
- 3. The injection and withdrawal indicators for the previous day will be available from 8h30AM

## 4.1.6 Overview remaining Storage Services

The remaining Storage Services (Injection / Withdrawal / Volume) for the primary market are displayed in the corresponding table view and are updated on a regular basis (and depending on the allocation calendar).

The Storage Services offered on the secondary market are displayed in the corresponding table view and are posted on request of the selling Storage User.

For more detailed information on the available Storage Services, Storage User can contact the storage operator on <u>info.storage@fluxys.com</u>.

## 4.1.7 Secondary Market report

Under this tab Storage users are redirected to the <u>Emix platform</u>. Emix is an advertising page with requests and offers for the secondary market of all Storage products. Via this tool Storage Users can interact easily with each other to purchase and/or sell Storage products.

## 4.2 Maintenance

## 4.2.1 Works and interventions impact

Works and interventions (i.e. planned maintenance) impacting the Installation Point are published for the following calendar year as from the 1<sup>st</sup> October preceding the calendar year. The information is updated every month. Detailed information on short term changes impacting the service rights (Injection / Withdrawal) are published by the maintenance factors as described in 4.1.

## 4.3 Metering

## 4.3.1 Hourly refreshed measurements on nodes and lines 🖬

The data is based on the codification which makes it possible to visualize information on linelevel for every type of metering configuration (e.g. 2 meters in series in one metering line).

When opening this section, the Hourly View with flow measurements for the last available hour is displayed for all the nodes.

On the left hand side a bar with all the available hours in the selected gasday is presented. Clicking on a specific hour will select this hour and display the measurements of this hour in the measurements grid. When changing the gasday the first gashour of that day is selected.



The center of the screen shows all the flow measurements on the selected gasday and gashour. For each node or metering line, a line is displayed with the following measurements:

- The amount of **Volume** that flowed through the node or metering line (Converted to normal conditions (0°C and 1 atm))
- The amount of Energy that flowed through the node or metering line during this hour
- The GCV calculated from the gas flow. This value is calculated as the fraction of Energy/Volume.
- The Pressure of the gas (absolute pressure expressed in Bara)
- The Temperature of the gas
- The Gross Volume is the physical volume of the gas at measured conditions.
- The **VnConv** is the normalized Volume that is measured by the volume converter.
- For a metering line, the value **Weight/In Maintenance** indicates the weight of the line (-1/0/0,5/1). Some examples :
  - If a metering line is in maintenance or subcounting, the weight of the metering line will be '0'.
  - o If two meters are installed in the same meteringline, the weight will be '0.5'
- This makes that the metering results on node level are the summation of the consumptions (in Volume or Energy) of the different depending metering lines multiplied by their weight.
- The Status field shows the validation status of the measurements:
  - No Data
  - **Raw** data are measurements that are not at all verified or validated
  - Verified data means that a preliminary verification check has been done
  - Validated data means that extra checks have been executed and that the measurement is considered as accountable

splay Down	load			
Previous Day 🔇	05/09/2017	🔊 Next Day	🛷 Last Available Report	
Local Hours	Node/Line	Delivery Point	Node Name	Volume [m <sup>*</sup> (n)]
<u>06:00 - 07:00</u> <u>07:00 - 08:00</u>	20210-N01/A/1	20210	FLUXYS LOENHOUT STORAGE	79 720
<u>08:00 - 09:00</u>	20210-N01/A/2	20210	FLUXYS LOENHOUT STORAGE	0
<u>09:00 - 10:00</u> 10:00 - 11:00	20210-N01/A/3	20210	FLUXYS LOENHOUT STORAGE	0
<u>11:00 - 12:00</u> 12:00 - 13:00	20210-N01/A/4	20210	FLUXYS LOENHOUT STORAGE	0

#### 4.3.1.1 Download

There are essentially two main options to download measurement information from the application:

- The user can download the information manually by using the Graphical User Interface.
- It is also possible to address the download feature directly by using the Download URL.

#### 4.3.1.1.1 Manual download by the user

The user can download the required information manually by navigating to the Download section for a certain gasday period on the filtered nodes and metering lines:

- Hourly Flow Measurements on Node
- Hourly Flow Measurements on Metering Line
- Hourly Gas Analysis on Node
- Daily Gas Analysis on Node

It is possible to choose between two different file formats:

- CSV
- XML

#### 4.3.1.1.2 Selection in manual download

#### In general:

If you do not filter on a node or metering line (in the cell 'containing'), the selected period <u>must not exceed 1 month</u>. The downloaded file will contain all the data of the nodes/metering lines for which you have view rights.

Containing in Internal Codification Number or Internal Business Identifier

If you filter on a part of a node or metering line (some characters in the cell 'containing'), the selected period <u>must not exceed 1 month</u>. The downloaded file will contain all the data of the nodes/metering lines which contain the characters you put in the filter and for which you have view rights.

#### Some particularities:

If you select 'Hourly Flow Measurements <u>on Node'</u> or 'Hourly Gas Analysis <u>on Node'</u>, and you <u>filter</u> <u>on the exact codification of a node</u> (in cell 'containing').<u>The selected period can be up to 1 year</u>.

Attention: The codification must be <u>absolutely accurate</u> (You can find the codification for nodes and lines in the display section or in topology section).

Hourly	y Flow Measurement on Node	•				
O Hourly	y Flow Measurement on Meter	ring Line				
O Hourly	y Gas Analysis on Node					
O Daily	Gas Analysis on Node					
O Daily Containing	Gas Analysis on Node 22222-N01	in Internal Cod	lification Number o	or Internal Business Io	lentifier	
-	22222-N01	in Internal Cod	lification Number o	or Internal Business Io 08/12/2016	Jentifier	24
Containing	22222-N01 01/09/2016					24
Containing	22222-N01 01/09/2016					24

The codification (for node) must consist of 5 digits + N + 2 digits: 12345-N12

If you select 'Hourly Flow Measurements <u>on Metering Line'</u>, and you <u>filter on the exact</u> <u>codification of a line</u> (in cell 'containing').<u>The selected period can be up to 1 year</u>. The codification must be <u>absolutely accurate</u> (You can find the codification for nodes and lines in the display section or in topology section).

The codification (for line) must consist of 5 digits + N + 2 digits + / + 1 letter + / + the number of the line: 12345-N12/A/1

splay	Download
Data P	ublication Type
0	Hourly Flow Measurement on Node
۲	Hourly Flow Measurement on Metering Line
0	Hourly Gas Analysis on Node
0	Daily Gas Analysis on Node
Contair	ing 22222-N01/A/1 in Internal Codification Number or Internal Business Identifier
From	01/09/2016 hour 1 v to 08/12/2016 hour 24
Forma	t Type
۲	CSV
0	XML
Dow	mload

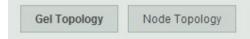
#### 4.3.1.1.3 Automatic download by an application

See chapter 6.

## 4.3.2 Topology 🔳

This section provides information about the metering topology elements on which the user has the right to view data. The view rights are derived from the contracts which are based on Gas Exchange Locations. These gas exchange locations can be subdivided in a set of Nodes.

## 4.3.2.1 Content



A Gas Exchange Location (GEL) consists of node memberships. A node can be a member of a GEL during a given time period. The membership has a weight with which the measurements of the respective node are aggregated in the result for the associated GEL. All this information can be found per GEL under the button **GEL Topology** (This option is accessible to limited users it depends of their contractual link with Fluxys - not applicable for Storage).

Under the **Node Topology** button a drop-down box can be found with all the nodes on which the user has the right to view data.

The whole history of the node is shown after selecting a node. The node history consists of the name changes and the EAN number.

The metering line history consists of the measured before status, operational status and the EAN number.

## 4.3.2.2 Download

There are essentially two main options to download topology information from the application:

- The user can download the information manually by using the Graphical User Interface.
- It is also possible to address the download feature directly by using the Download URL.

#### 4.3.2.2.1 Manual download by the user

The user can download the required information manually by navigating to the Download section. This section provides selections to download the whole history of either:

- Gas Exchange Location Topology: for all GELs on which the user has the right to view data
- Node Topology: for all GELs on which the user has the right to view data

It is possible to choose between two different file formats:

- CSV
- XML

## 4.3.2.2.2 Automatic download by an application

See chapter 6.

## 4.3.3 Further remarks about Metering and Topology

#### 4.3.3.1 Aggregation of measurements

Since a Gas Exchange Location (GEL) consists of a set of nodes and a node consists of a set of metering lines, the measurements for a complete GEL should be aggregated.

We advise to start the aggregation for a complete GEL from the set of nodes and not from the set of metering lines. A metering line can go 'In Maintenance' or the measurements can already be accounted in the measurements of another metering line, i.e. 'Measured ©31/01/2024, Fluxys Storage • 56

Before'.

The measurements on the node level take these two parameters into account and can therefore readily be used for the aggregations.

#### <u>Example</u>

What is the total energy on gas exchange location A at gas day X, hour Y?

The topology of gas exchange location A at gas day X and hour Y is:

- Membership 1: Node n1, weight w1 = -1
- Membership 2: Node n2, weight w2 = -1
- Membership 3: Node n3, weight w3 = 1

The measurements of nodes n1, n2 and n3 at gas day X and hour Y are:

- Node n1: e1 = 100 kWh
- Node n2: e2 = 200 kWh
- Node n3: e3 = 500 kWh

Calculation Total energy (e) = e1 \* w1 + e2 \* w2 + e3 \* w3=  $100^{*}-1 + 200^{*}-1 + 500^{*}1$ = 200 kWh

## 4.4 Storage Inventory and Allocation

## 4.4.1 Provisional Hourly Allocations 🔳

For a complete description of the Provisional Hourly Allocations data publication, please refer to the annex D1 of the Access Code for Storage.

## 4.4.1.1 Purpose

The 'Provisional Hourly Allocation Report' screen gives the ability to navigate through all of the user's Provisional Hourly Allocation reports of the past 3 years. The allocations are categorized by their respective gashour.

#### 4.4.1.2 Published data

For each gashour a list of all provisional allocations is given. Every allocation detail concludes the gashour and gasday, the shipper account, the EDIGAS-code of the location and the allocation value (expressed in kWh).

## 4.4.1.3 Access to publications

The provisional hourly allocations can be accessed in three different ways: via the display section, the download section and via a download URL.

The display section allows the grid user to view and consult the provisional hourly allocations online and the download section and download URL give the grid user the ability to download the available allocations in different file formats for further usage.

## 4.4.1.4 Display section

The last available Provisional Hourly Allocation Report will be displayed by default. If the user wants to display the allocations for a different gashour, then he should first select the correct gasday with the calendar tool at the top left corner of the screen. By default the

Allocations first gashour of the day is displayed. Then the correct gashour can be chosen from the bar on the left side of the screen.



Additionally to the allocation data, the generation date and time of the report is displayed on top of the screen.

## 4.4.1.5 Download section

To manually download provisional hourly allocations, the user should select the download tab.

The download screen gives two options to download the provisional hourly allocations. The gasday or range of gasdays and the output file format can be chosen by the user.

Date range selection:

- Last available report
  - This option returns the provisional hourly allocations for the last gasday.
- Date range:

Select all the gasdays starting at gasday 'From' until gasday 'To'. The FROM date may not be later in time than the TO date and the maximum date range is limited to one week. The screen automatically changes the FROM or TO date if the maximum date range of one week is exceeded.

#### Output File Type Selection:

Three file types are available for manual download:

- CSV
- XML

Display	Download								
Date I	Range Selection								
O	The last available Report								
۲	Select from a date range:								
	From 03/09/2012	To 03/0	9/201:	2 🔽 Septe	-	204	,	•	
							Sa	Su	
Outpu	t File Type Selection	Мо	Ти	We	Th	Fr			
			<b>Tu</b> 28	We 29	<b>тh</b> 30	<b>Fr</b> 31	3a 1	2	
0	CSV Format						<u>, t</u>		
		27	28 4	29	30	31	<u>, t</u>	2 9	
0	CSV Format	27	28 4 11	29 5 12	30 6	31 7	1 8	2 9 16 23	
0	CSV Format	27 3 10	28 4 11 18	29 5 12 19	30 6 13 20	31 7 14	1 8 15	2 9 16	nber 15, 20

After the user has set the right parameters to download the desired Provisional Hourly Allocations and clicked the Download button, the File Download screen pops up, giving him/her the choice to directly open the file, or to save it.

			903_20120905.csv
and the second	Application, 9,9 gasdatadvi.flux		
	Open	Save	Cancel

## 4.4.1.6 Automatic download URL

See chapter 6.

## 4.4.2 Gas In Storage 💷

GIS data allows grid users to keep track of the amount of energy they have in storage in the Fluxys storage installations.

#### 4.4.2.1 Display

The Gas In Storage screen opens by default the last available GIS Report.

The GIS Report screen gives the ability to navigate through the user's GIS Reports of the last past 3 years. Therefore, the user will find a calendar menu item where he can select the appropriate day for which he wants to consult the GIS Report. So, by changing the date, the user can navigate through all his available Reported Daily Imbalance Reports.

The title of each GIS Report consists of the gasday for which the report applies. The GIS data is delivered on a per hour basis. For every hour (expressed in local time) following elements are displayed:

- Begin and end time of the hour
- For each plant at which a grid user is active
- Amount of GIS position of the user (kWh)
- Total amount of GIS (kWh)
- Generation time of the GIS message

The report is built up as the gasday progresses with a new line being added every hour.

Gas in Storage			
Display Download			
Previous Day 🔇 05/0	)9/2012 💟 📎 Next Day	🍘 Last Available	Report
05/09/2012	Loenhout		
Local Hours	GIS Position	Total GIS	Generated At
06:00 - 07:00			
07:00 - 08:00			
08:00 - 09:00			
09:00 - 10:00	Repo	rt Co	ntent
10:00 - 11:00	po		
11:00 - 12:00			
12:00 - 13:00			
13:00 - 14:00			
14:00 - 15:00			

#### 4.4.2.2 Download

There are two different ways in which the download features of the application can be used. These different options are intended for different sorts of use. On one hand, the user can download the desired information by using the Graphical User Interface. On the other hand, it is also possible to address the download feature directly by using the Download URL.REPORT

#### 4.4.2.2.1 Manual download by the user

On one hand, the user can download the last available report or a range of reports using the Graphical User Interface by navigating to the download section of the application.

In the Gas In Storage screen, the user can specify all the parameters of the desired download.

The download procedure for the GIS Reports follows the same rules and principles as the download procedure of the Provisional Hourly Allocations. Therefore, we refer to paragraph 7. Automatic downloads for more information on downloading report information.

Date R	ange Selection
۲	The last available Report
O	Select from a date range:
	From 05/09/2012 To 05/09/2012
Output	File Type Selection
۲	CSV Format
0	XML Format

**4.4.2.2.2** Automatic download by an application See chapter 6.

4.4.3 Gas in Storage Forecast 💷

100000         10000           100000         10000           100000         10000           100000         10000           100000         10000           100000         10000           100000         10000           100000         10000           100000         10000           100000         10000           100000         10000           100000         10000           100000         10000           100000         10000           100000         10000           100000         100000           100000         100000           100000         100000           1000000         100000           10000000         100000           1000000000         1000000           1000000000000000000000000000000000000			e Grain Stronge Tode Ruas Biorage Coduity 19			
Date	Hear	Total Real StorageCapacity (MWh)	Gas in Storage (MWN)	Exceedings (MMM)	OCV Gas in Storage (KWhim')	_
06/05/2022	06:00-57:00	1 108-017	104 985		11.30	
06/03/2022	07:00 - 90:06	1 159 017	804.988		11.30	
05/03/2022	08:00-09:00	1 109 017	004 885		11.30	
95/05/2122	98:00 - 10:00	1 109 017	504 988		11.30	
96/03/2022	10.00 - 11.00	1 109-017	504.955		11.30	
06/05/2022	11.00 - 12.00	1 109 017	804 288		11.30	
06/03/2022	12:00 - 12:00	1 109 017	804 988		11,30	
06/03/2022	12:00 - 14:00	1 100 017	804 885		11.30	
06/03/2022	14.00 - 13.00	1 109 017	804 988		11.50	
06/05/2022	15.00 - 16.00	1 109 017	804 888		11.30	
06/05/2022	16.00 - 17.00	1 100 017	804 888		11.30	*

GIS / Storage Right screen

The upper section represents a graph with two curves: the GIS level in red and the total real storage rights in blue. The picture displays an hourly detail for a period of 9 gasdays (yesterday, today and next week). The vertical axis shows the amount in MWh. The current hour is represented by a vertical line. The first gashour of a day is also highlighted.

The lower section shows the same information in a table, but with one extra columns: the GCV Gas In Storage.

When the Gas In Storage is negative or, at any given hour, greater than the cumulated storage rights of the plant, this is regarded as an exceeding. The exceeding amount is shown in both the graph and the table.

The gas in storage can be downloaded to an .xml file by pressing the 'Download Documents' button. This allows you to save the .xml file on one of your drives.

The .xml file will provide, for the period (tags \Period\Start, \Period\End) for which gas in storage is available on the screen, the gas in storage in kWh and m3

(tag \DailyBalances\DailyBalance\HourlyBalances\HourlyBalance\ EnergySteeringAccount (kWh)or \ VolumeSteeringAccount (in m3)

and the total gas in storage in the well

(tag \DailyBalance\DailyBalance\HourlyBalance\HourlyBalance\ EnergyTotalGis (kWh) per gasday

(tag \DailyBalances\DailyBalance\Gasday)

and per gashour

(tag \DailyBalances\DailyBalance\ HourlyBalances\HourlyBalance\GasHour).

## 4.5 Flow Data

## 4.5.1 Inventories Storage Report (before 01/04/2024)

Specific factors for storage users to calculate their real injection and withdrawal rights

UFI	Underground Factor for Injection
TSOFI	TSO Claim Factor injection
MFI	Maintenance Factor for Injection
UFW	Underground Factor for Withdrawal
TSOFW	TSO Claim Factor withdrawal
MFW	Maintenance Factor for Withdrawal
GIS	Gas In Storage
ASC	Available Storage Capacity (= USC – CSCF – CSCC)
CSCF	Contracted Storage Capacity Firm
USC	Usable Storage Capacity (=max(Total SBU's;(CSCF+CSCC)) (Maximum that can be stored in current operational conditions)
WV	Working Volume (or Useful Volume as described in Access Code - Glossary) (Maximum that can be stored in optimal conditions)
MIC	Total available Injection capacity
MWC	Total available Withdrawal capacity
DANIN	Day-Ahead Nomination Injection
DANWD	Day-Ahead Nomination Withdrawal
FNIN	Final Nomination Injection
FNWD	Final Nomination Withdrawal
AllocIN	Allocation Injection
AllocWD	Allocation Withdrawal
PF	Physical Flow
GCV	Gross Calorific Value in kWh/m³(n) – a fixed GCV of 11,3 kWh/m³ is used

## 4.5.2 Inventories Storage Report (as from 01/04/2024)

Specific factors for storage users to calculate their real injection and withdrawal rights.

As from 01/04/2024 three extra columns will be added.

- Technical max capacity: shows the maximum subscribed capacity of the last 10 years;
- SBU max: shows the total volume that can be sold with SBU's (7.61 TWH)
- Booked storage capacity: that gives the total booked capacity (SBUs + additional volume) for a specific year.

For information, the Working Volume is composed of the commercial firm capacities (Golden SBUs, amounts to 7.6 TWh), and an additional capacity which depends on the physical conditions of the underground. This additional capacity typically fluctuates between 0.8 and 1.3 TWh, creating a working volume typically between 8.4 and 8.9 TWh.

## 4.6 Invoicing

## 4.6.1 Allocation Details 🔳

As the filter option "All" is selected on the panel by default, the navigation panel shows all available invoicing months and allocation details versions. The user can use the Navigation Tree to select an allocation detail and view or download the document.

Filter Del	inition	
All		
Activity	Month	
09/20		
09/20	12 1	
© Month	ly Details Version Nr is	Filter
-	Apply Filter	
	Details Version Selection ocation Details	
	Invoicing date 19/06/2012 Invoicing date 15/05/2012	
	Invoicing date 23/03/2012	
	Invoicing date 17/02/2012	Navigation Tree
• E	Invoicing date 26/01/2012	Navigation riee
. E C	Invoicing date 16/12/2011	
😠 😂	Invoicing date 23/11/2011	
🖽 ն	Invoicing date 13/09/2011	
<u>ا</u>	Invoicing date 12/09/2011	
± ն	Invoicing date 09/09/2011	
🕀 🛅	Invoicing date 08/09/2011	
· 🖻 🗎	Invoicing date 07/09/2011	
🖽 🖸	Invoicing date 06/09/2011	
🕀 🜔	Invoicing date 05/09/2011	
• E	Invoicing date 02/09/2011	

The user can modify the filter applied on the collection of available allocation details organized in the navigation tree. The allocation details are grouped per invoicing month and per monthly details version number.

The Navigation Tree, the Filter Panel and the different downloading options will be discussed in the following sections.

#### 4.6.1.1 Navigation Tree

M	lonti	ıly De	tails Version Selection	
	3	Alloca	ation Details	
	±	<u> </u>	Invoicing date 19/06/2012	Level 1
			Monthly Details Version 2012050001	— Level 2
	±		Invoicing date 23/03/2012	
	±	6	Invoicing date 17/02/2012	
	±	6	Invoicing date 26/01/2012	
	±	<b>a</b>	Invoicing date 16/12/2011	
	±	6	Invoicing date 23/11/2011	
	Ŧ	<u> </u>	Invoicing date 13/09/2011	
	Ŧ	6	Invoicing date 12/09/2011	
	±		Invoicing date 09/09/2011	
	±	6	Invoicing date 08/09/2011	
	±	6	Invoicing date 07/09/2011	
	Ŧ	6	Invoicing date 06/09/2011	
	Ŧ	ā	Invoicing date 05/09/2011	

The navigation provides a tree structure of all invoicing dates (i.e. document date of the allocation details) of the last 3 years and the associated bundled/linked Monthly Details Version Numbers:

- Level 0: label 'Allocation Details'. This navigation tree is built for the quick navigation through the archived collection of allocation details of the last 3 years. The filter above provides additional browsing facilities and is applicable on the tree content.
- Level 1: Invoicing Dates (invoicing data available for the past 3 years). This level of the navigation tree contains the invoicing dates or document dates of the last 36 invoicing months.
- Level 2: Monthly Details Version Number In the second level, the user can find all the Monthly Details Version Numbers that are attached/bundled/linked to a particular invoicing date or document date. If a Monthly Details Version Number has been selected in the navigation tree, the user will have the possibility to download all the allocation details associated with that particular Monthly Details Version Number, and related to the invoicing date of the previous level. All the related allocation details for a particular Monthly Details Version Number and Invoicing Month/Document date will be shown in the Allocation Details Download Panel to the right of the Navigation Tree. These particular allocation details can be downloaded separately or all together in a zip file.

#### 4.6.1.2 Filter Panel

Filter Definition	
<ul> <li>All</li> <li>Activity Month</li> <li>09/2012 </li> <li>Monthly Details Version Nr is</li> </ul>	=> Only the Monthly Details Versions of Activity Month September 2012 are shown in the navigation tree, even though the invoicing dates contain other Monthly Details Versions
Apply Filter	

The Filter Panel gives the user the possibility to filter/limit the available Monthly Details Version Numbers in the navigation tree for easy and quick navigation. After applying a desired filteroption by selecting the preferred filter option and clicking the "Apply Filter" button, this option is highlighted. The filter panel consists of the following criteria/options.

• All

If this option is chosen, no filter is applied. The option "All" gives all the available Monthly Details Version Numbers grouped by the Invoicing Date (=document date) to which they are linked/bundled.

• Activity Month

This filter criterion gives the user the option to restrict the available Monthly Details Version Numbers shown in the navigation tree to a pre-defined Activity Month in the combo-box.

• Monthly Details Version Number

This option offers the possibility to search and request a specific Monthly Details Version Number that fully matches the expression entered in the corresponding editbox. As so, the user can limit the Monthly Details Version Numbers shown in the navigation tree to one particular version.

#### 4.6.1.3 Download

Essentially, there are two different ways in which the download features of the application can be used:

- Download the desired information through the Graphical User Interface.
- Address the download feature directly by using the Download URL.

#### 4.6.1.3.1 Manual download by the user

The user can download the allocation details of a selected invoicing date or linked to the selected Monthly Details Version Number by navigating to the desired invoicing month (level 1) and Monthly Details Version Number (level 2).

If a Monthly Details Version Number has been selected in the fourth level of the navigation tree, all the related allocation details for a particular Monthly Details Version Number and Invoicing Date/Document Date are shown in the Allocation Details Download Panel to the right of the Navigation Tree.

🗉 🗀 Invoicing date 30/06/2010	Download	Grid User's Definitive Hourly Allocation Form	Download a single allocation detail	12/02/2012
Direction of the second s	Download	Grid User's Definitive Hourly Allocation Form	Grid User's Definitive Hourly Allocation Form of	13/02/2012
Comparison of the second	Download	Grid User's Definitive Hourly Allocation Form	GasDay 13/02/2012, with Monthly Details Version	14/02/2012
Invoicing date 27/04/2012 Invoicing date 31/03/2012	Download	Grid User's Definitive Hourly Allocation Form	Number 2012020001 and linked to the invoicing date 31/03/2012	15/02/2012
Monthly Details Version 2012020001	Download	Grid User's Definitive Hourly Allocation Form	Download all allocation details related to a	16/02/2012
Monthly Details Version 2012010002	Download	Grid User's Definitive Hourly Allocation Form	particular Monthly Details Versoin	17/02/2012
Invoicing date 29/09/2010			All the allocation details with Monthly Details	
🗉 🚞 Invoicing date 27/08/2010	Download	Grid User's Definitive Monthly Allocation Ferm	Version Number 2012020001 and linked to the	01/02/2012
Direction of the contract	Download	Grid User's Definitive BAD Hourly Allocation Form	invoicing date 31/03/2012	01/02/2012
🗉 🚞 Invoicing date 31/05/2010	Download	Grid User's Definitive BAP Daily Allocation Form	Download all allocation details related to the	01/02/2012
Dirvoiding date 30/04/2010     Dirvoiding date 31/03/2010     Dirvoiding date 28/02/2010	Download	Temperatures Daily Form	selected invoicing date All the allocation details linked to the invoicing	01/02/2012
	Download this Monthly	Details Version Download entire Invoicing Date	date 31/03/2012 (versions 2012020001, 2012010002 and 2011120003)	

The user has the possibility to choose the granularity of the group of allocation details to download:

- A particular single allocation detail can be downloaded by clicking the download button in front of the associated allocation detail line. Subsequently, this allocation detail file is downloaded as a CSV file which can be opened with either Notepad or Excel, and/or can also be saved to a local drive.
- All the allocation details related to a particular Monthly Details Version Number can be downloaded by selecting the option "Download this Monthly Details Version" and clicking the "Start Download" button. This bundle of allocation details is downloaded as a ZIP file containing all the allocation details in CSV file format.
- The download of all the allocation details of all the allocation details versions related to the selected invoicing date of the previous level is executed by selecting the option "Download entire Invoicing Date", and clicking the "Start Download Button". This group of allocation details is downloaded as a ZIP file containing all the allocation details in CSV file format.

After the user has initiated a download, the File Download screen pops up giving him/her the choice to either directly open the file or save it.

#### 4.6.1.3.2 Automatic download by an application

See chapter 6.

4.6.2 Invoices 💷

## 4.6.2.1 Navigation Tree

Invoice Selection	
Storage	Leve
▼ 2014	
November	Leve
▼ 12/11/2014	Overview Leve
▶ 00100021	.86 - Storage Leve
October	
September	
August	
July	
June	
May	
April	
March	
February	
January	
2013	
Expand All	Collapse All

The navigation provides a tree structure of all invoicing dates from April 2013 and the associated bundled/linked Invoice Numbers:

• Level 0: label 'Storage'.

This navigation tree is built for the quick navigation through the archived collection of invoices from April 2013.

- Level 1: Invoicing year This level of the navigation tree contains the invoicing year.
- Level 2: Invoicing month This level of the navigation tree contains the invoicing month.
- Level 3: Invoicing Dates (invoicing data available from April 2013). This level of the navigation tree contains the invoicing dates. If a invoicing version number has been selected in the navigation tree, the user will have the possibility to download all the invoices associated
- Level 4: Invoicing Number In this level, the user can find all the invoicing version numbers that are attached/bundled/linked to a particular invoicing date.

#### 4.6.2.2 Download

A manual download for the desired information through the Graphical User Interface can be done.

#### 4.6.2.2.1 Manual download by the user

The user can download the document of a selected invoicing date or linked to the selected invoice number by navigating to the desired invoicing month (level 2).

Document nr	Description	Invoice	Invoice Appendix
0010000857	12/05/2014 - Storage	POF	PDF

Starting from 01/04/2022, PDF invoices and appendixes will be abandoned and replaced by Invoice XML and Invoice Detail XML files. The product codes can be found under <u>Operational Information</u> on our website Fluxys.com.

## 4.6.3 Other invoices: Fluxys Belgium 🖬

This section of EDP gives access to private data concerning invoices and appendixes for non-regulated activities.

## 4.6.4 Boosters report

Invoicing details for the calculation of the variable part of the Service Fee for the DAM/NNS Service, the part of the confirmed (last) Nominations above the applicable Real Withdrawal Capacity or Real Injection Capacity is allocated to the DAM/NNS. Filename YYYYMM contains invoicing details of invoice YYYYMM+1

File Name	▲ Date
201410v01 - Allocated Non Nominated Services - GDF Suez.xlsx	07/11/2014 10:25:07
201409v01 - Allocated Non Nominated Services – GDF Suez.xlsx	08/10/2014 14:11:26
201408v01 - Allocated Non Nominated Services - GDF Suez.xlsx	04/09/2014 09:58:33
201407v01 - Allocated Non Nominated Services – GDF Suez xlsx	21/08/2014 08:52:54
Showing 1 to 4 of 4 entries	

## 4.6.5 Gas in Storage Account for LHT Storage 🔳

This report contains the monthly detail of the individual total inventory position (GIS account level) at the Loenhout storage installation plant during the month. The Gas In Storage account is published every month on Electronic Data Platform.

	EDEMINOUT OTOMADE TEAMT	nuxys ~
GIS Account for	ххххххх	
Month	October 2020	kWh
1. Quantities IN		
Allocated Quantities I	N	2 118 000
Total Quantities IN		2 118 000
2. Quantities OUT		
Allocated Quantities (	TUC	21 522 000
Allocated Gas in Kind		108 030
Total Quantities OU	т	21 630 030
3. Balance		
GIS at 01/10/2020	06:00	2 822 507 809
+ Quantities IN		2 118 000
- Quantities OUT		- 21 630 030
GIS at 01/11/2020	06:00	2 802 995 779
Change in GIS		- 19 512 030

LOENHOUT STORAGE PLANT flux vs

## 4.6.6 Synchronization GIS-level LHT Storage 🔳

The synchronization between the steering and validation level of the Gas In Storage account at the Loenhout storage Installation point. The scheduling date for this synchronization is communicated by Fluxys Belgium NV with the publication on Electronic Data Platform.

Synchronisatic	on Steering leve	l at Loenhout Stora	ige - <mark>xxxxxxx</mark>				e
							fluxys <sup>ර</sup>
These Courses		Jacob at 01 (11 /202	0.05.00				
		levels at 01/11/202					
(Steering level i	is the level base	d on provisional figu	ires - this is the	e level as it is	forwarded each	hour by Fluxys by use	of an electronic message)
Your steering G	IS account	1.159.767.094	kWh				
Your validated	GIS account	1.159.767.094	kWh				
<u>Delta</u>		0	kWh				
This succession of	ill be synchroniz	und on	xx/xx/2020	at gashour	06:00-07:00		

# 4.6.7 Transfers Monthly Fuelgas Balance for LHT Storage (Inactive as of 01/06/2024)

Distribution of the Monthly Fuelgas Balance at the Loenhout Installation plant. This operation is done the following month. The scheduling date for this transfer is communicated by Fluxys with the publication on Electronic Data Platform.

				fluxys <sup>6</sup>
The following quantities will be transfered to				
Monthly Fuelgas Balance - Oktober 2020		52.576	kWh	
This quantity will be transfered on	xx/xx/2020	at gashour	06:00-07:00	
Please contact us, if the proposed date and	time are not conven	ient for you.		

# 4.6.8 Evolution of the Gas in Storage Account for Storage (before 01/06/2024)

Evolution of your GIS account in energy with hourly granularity, contains data from the past and already known data for the future.

æ										arcal <b>?</b> www.fax
uxys <sup>&amp;</sup>	Transmission & ZTP Trading Services	Storage	LNG terr	ninalling Adminis	tration					
Lo	vad Data	14 4 1	of 1 Þ Þi 🔍	•						
Period From:		Activities	GIS Acco	ount overview						
01/05/2023		Storage user:				f	luxys <sup>&amp;</sup>			
Period To:		Allocation Type:	Steering							
25/05/2023		Unit:	kWh (25°C)							
23032020		Gas Day	Gas Hour	GIS Start Level	Injection Allocations	Withdrawal Allocations	GIK	CTP Transfers	Fuelgas Balance Transfers	Synchronisation
Allocation Type:		01/05/2023	1	1 029 306 212						
<ul> <li>Steering</li> </ul>		01/05/2023	2	1 029 306 212						
O Validated		01/05/2023	3	1 029 306 212						
		01/05/2023	4	1 029 306 212						
		01/05/2023	5	1 029 306 212						
		01/05/2023	6	1 029 306 212						
		01/05/2023	7	1 029 306 212						
		01/05/2023	8	1 029 306 212						
		01/05/2023	9	1 029 306 212						
		01/05/2023	10	1 029 306 212						
		01/05/2023	11	1 029 306 212						
		01/05/2023	12	1 029 306 212						
		01/05/2023	13	1 029 306 212 1 029 306 212						
		01/05/2023	14							
		01/05/2023	15	1 029 306 212 1 029 306 212						
		01/05/2023	16	1 029 306 212						
Lo	ad Data	01/05/2023	17	1 029 306 212						
		01/05/2023	18	1 029 306 212						

#### 4.6.8.1 Download

A manual download for the desired information can be done only in .xls format via export drop down menu.

# 4.6.9 Evolution of the Gas in Storage Account for Storage (as from 01/06/2024)

Evolution of your GIS account in energy with hourly granularity, contains data from the past and already known data for the future.

luxys C	& ZTP Trading Services S	Storage L	NG terminalling A	ministration		User Manual	www.fluxys.com			
Evolution of the Gas In Storage A										
Load Data	14 4 1	ofi ÞÞi 星	, <b>-</b>							
Period From	Activitie	Activities GIS Account overview					fluxys <sup>c</sup>			
	Storage user:	and the second second	TI	fluxys o						
Period To	Allocation Type	Allocation Type: Steering								
	Unit: KWh (25°C)									
	Gas Day	Gas Hour	GIS Start Level	Injection Allocations / (Re)Nominations	Withdrawal Allocations / (Re)Nominations	CTP Transfers	Synchron			
Allocation Type: Steering	_									
		1	2 539 140 206	214 440	0		_			
O Validated			2 539 354 646	200 000	0					
	Personal Contractor	2								
		3	2 539 554 646	200 000	0					
		3		200 000 200 000	0					
		3	2 539 554 646	2048-0429	•					
		2 3 4 5 6	2 539 554 646 2 539 754 646	200 000	0					

## 4.6.9.1 Download

A manual download for the desired information can be done only in .xls format via export drop down menu.

## 4.7 Regulatory and contractual documents

## 4.7.1 Storage Model

Link to Program for storage – description of services.

## 4.7.2 Conditions and Tariffs

Link to Tariffs for storage services.

## 4.7.3 Contractual Documents

Link to Storage agreements and access code.

## 4.7.4 Subscription of capacity

Link to Subscription and allocation on the primary market.

## 4.8 **REMIT** messages

<u>Regulation on Energy</u> <u>Market</u> Integrity and <u>Transparency</u>

<u>Purpose</u> : Publishing information to foster open and fair competition through reporting that may impact price and applies to market participants (including TSO's or Grid-Users who enters into transactions in wholesale energy markets).

## 4.9 Notifications 💷

General commercial informations

## 5 LNG Terminalling

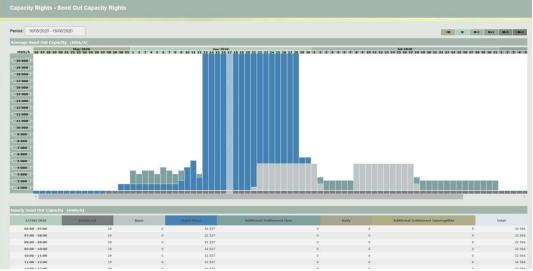
## 5.1 Contracting and Capacities

## 5.1.1 Available terminalling capacity

Information on total capacity for the Zeebrugge LNG Terminal facility.

## 5.1.2 Overview of the available slots on the Primary and secondary markets

Bulletin board for available slots and Terminalling services, with associated reservation form.



## 5.1.3 Capacity Rights - Send Out Capacity Rights 💷

S-O Capacity Consult Screen

Information about Send Out capacities is retrieved for a period of 3 months: one month in the past and two months in the future.

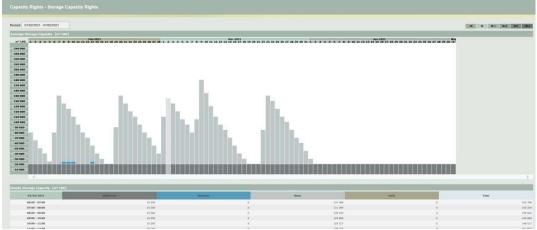
The upper section presents a daily average of the S-O capacities over the time line (horizontal axis); the major time steps are month and the minor ones are days (GasDays). Given the hourly resolution nature of the capacities, <u>the daily average is only informational</u>. Clicking on a given day in the upper section will load the hourly details for that day. By default, "tomorrow" is loaded. Note that values are given in MWh/h and are rounded.

17/06/2020	Additional	Basic	Band Mene	Additional Extitlement Tires	Daily	Additional Entitlement Interruptible	Tetal
06:00 - 07:00	29	0	32 537	0	0	0	32
7:00 - 08:00	29	0	32 527	0	0	0	32
09:00 - 09:00	29	0	32 537	0	0	0	32
09:00 - 10:00	29	0	32 537	0	0	0	32
10:00 - 11:00	29	0	32 537	0	0	0	31
11:00 - 12:00	29	0	32 537	0		0	33
12:00 - 13:00	29	0	32 537	0		0	32
13:00 - 14:00	29	0	32 537	0	0	0	33
14:00 - 15:00	29	0	32 537	0	0	0	33
15:00 - 16:00	29	0	32 537	0	0	0	33
16:00 - 17:00	29	0	32 537	0	0	0	3
17:00 - 18:00	29	0	32.537	0	0	0	33
18:00 - 19:00	29	0	32 537	0	0	0	3
19:00 - 20:00	29	0	32 537	0	0	0	3
20:00 - 21:00	29	0	32 537	0	0	0	31
21:00 - 22:00	29	0	32 537	0	0	0	2
22:00 - 23:00	29	0	32 337	0	0	0	3
00:00 - 00:00	29	0	32 537	0	0	0	3
00:00 - 01:00	29	ō	32 537	1 915	0	0	3
01:00 - 02:00	29	0	32 537	1 915	0	0	
02:00 - 03:00	29	۵	32 537	1 915	0	0	3
93:00 - 94:00	29	0	32 537	1 915	0	0	3
04:00 - 05:00	29	0	32 537	1 915		0	3
00100 - 00100	29	0	22 537	1 915	0	0	3-
							Download Docume

Send Out capacities hourly details for one given day.

The "Download Documents" button will allow the download of this information in XML format.





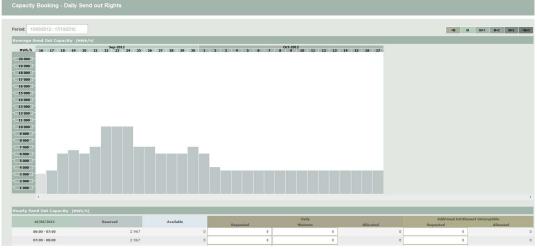
Storage Capacity Consult Screen

Information about Storage capacities is retrieved for a period of 3 months: one month in the past and two months in the future. The color code will help to identify the current month.

The upper section presents a daily average of the STO capacities over the time line (horizontal axis); the major time steps are month and the minor ones are days (GasDays). Given the hourly resolution nature of the capacities, the daily average is only informational. Clicking on a given day in the upper section will load the hourly details for that day. By default, "tomorrow" is loaded. Note that values are given in m<sup>3</sup> LNG and are rounded.

82/03/2023	Address	Radiow	Rasis	Date:	Tellal
66:06 - 07:00	19 200	1	131 506		150 7
67:00 - 08:00	18 200		131.004		1201
88.00 - 99.00	18 200	1	130-442	1	1+0
010:00 - 10:00	14.200	1 C	129 300		140
10:00 - 11:00	19 200	0	129 317		140
11:00 - 12:00	19 200	0.	128.755		147
12:00 - 13:00	19.200	0	128 103		142
13-00 - 14-00	19 200	0	127 631	1	146
14:00 - 15:00	19.200	8	\$27.868		140
15:00 - 18:00	18 200	0	126 528	1	145
38:00 - 17:90	19.200		125 944	1	145
17:00 - 18:00	18.200	0	125 302	1	144
18:00 - 19:00	19 200	B.	124 819		144
19:00 - 30:00	18 200	0	124 237	1	143
20:00 - 21:00	k# 200	0	123.045		142
21:00 - 22:00	19 200		121 133	1	14
22:00 - 23:00	19 200	0	122 576	1	141
23:00 - 00:00	19 200	0.	122 008		141
00:00 - 01:00	19 200		121 446		140
01:00 - 02:00	19 200		120 884	4	140
02:00 - 03:00	19 200	0	120 121	1	10
83-00 - 04-00	19.200		119 759	1	130
04:00 - 05:00	15 200	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	119 197		126
05:00 - 06:00	19 200	0	118 635		137

Storage capacities hourly details for one given day.



5.1.5 Capacity Booking - Daily Send out Rights 🔳

Book Daily S-O Screen

Information about send out capacity bookings is retrieved for a period of 32 days: yesterday, today and 30 days in the future. The color code will help to identify the current month.

The upper section presents a daily average of the S-O capacities over the time line (horizontal axis); the major time steps are months and the minor ones are days (GasDays). Given the hourly resolution nature of the capacities, the daily average is only informational. The grey boxes represent the total booked capacity (via basic or additional rights), while the olive ones relates to either booked (future) or allocated (yesterday and today after 11am) capacities. Clicking on a given day in the upper section will load the hourly details for that day. By default, "today" is loaded. Note that yalues are given in MWh/h and are rounded.

identity         Name         All control         All contro         All contro         All	located
\$273OO<	
non-odd     non-odd     non-odd     non-odd     non-odd       non-load     373     0     0     0     0     0       100-load     650     0     0     0     0 <t< td=""><td></td></t<>	
9x00-1x0027300	
1800-11802730000001100-1260277000	
1100-1200277300 <th< td=""><td></td></th<>	
130 130173000000130 140653000 <td></td>	
1400         645         0         4         4         4         4           1400         645         0 <td< td=""><td></td></td<>	
1400         6.65         0 </td <td></td>	
1300-1480         645         0         0         0         0         0           1500-1600         655         0	
1800-1700         655         0 <th< td=""><td></td></th<>	
1700-1860         6.55         0 <t< td=""><td></td></t<>	
indo         6.55         0         0         0         0         0           1000-1000         6.55         0	
indo         6.65         0 </td <td></td>	
2000 - 21.00         6456         0         0         0         NA         0           21.00 - 25.00         6455         0         0         0         NA         0           22.00 - 25.00         6455         0         0         0         NA         0	
2100 - 2200         6 555         0         0         0         NA         0           2200 - 7200         6 555         0         0         0         NA         0 <t< td=""><td></td></t<>	
22:00         5:55         0<	
2300-06:00         6.656         0         0         0         NA         0           0600-06:00         6.656         0         0         0         NA         0           0100-02:00         6.55         0         0         0         NA         0           0200-03:00         6.55         0         0         0         NA         0           0200-03:00         6.55         0         0         0         NA         0           0200-04:00         6.55         0         0         0         NA         0	
0000-0100         6455         0         0         0         NA         0           0100-0200         655         0         0         0         NA         0           0200-0200         655         0         0         0         NA         0           0200-0200         655         0         0         0         NA         0	
01.00 -02.00         6 655         0         0         N/A         0           02.00 -05.00         6 555         0         0         0         N/A         0           02.00 -05.00         6 655         0         0         0         N/A         0	
02.00         0.655         0         0         0         N/A         0           03.00         6.655         0         0         0         N/A         0	
83.00 - 64.00 6 655 0 0 0 N/A 0	
94:00 - 05:00 0 0 N/A 0	
03:00-06:00 0 0 0 N/A 0	
Set Naximum Set Naximum	
Pedrauk Values Set Default Set Default Set Default	
Default Value: Set Default Set Default Set Default	

Hourly details of S-O bookings for one given day.

The buttons and text fields in the red rectangle are only available for users with role "validator" and/or "composer" in the LNG activity.

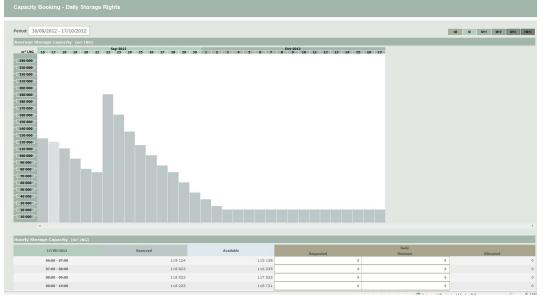
The "Set Maximum" button can be used to copy the content (exact value – without<br/>rounding) of the Available column to the Requested column(s). The "Set Default" button,<br/>©31/01/2024, FluxysLNG Terminalling• 74

used in combination with the "Default Value" box will copy the same value in all rows of a column. Use the "Update Bookings" button to validate the requested quantities. In contrast to the Transmission activity, where the composer user prepares bookings and the validator user validates these bookings, there is no validate action needed in the LNG activity. Both the composer user and the validator user can make bookings, and these are immediately accepted without any validation action.

When allocated (daily for next day @ 11 am), the capacities are available in the Allocated column and the update booking button is disabled. "N/A" in this column must be interpreted as not yet allocated, while "0" is to be interpreted as zero quantity allocated. Allocated quantities are also available in the consult S-O screen

06/10/2012	Reserved	Available		Daily		Additional Entitlemen	
06:00 - 07:00	3 019	10 958	Requested 2300	Minimum 1500	Allocated 2300	Requested 5230	Allocated
07100 - 08100	3 019	10 958	2300	1500	2300	5230	
08:00 - 09:00	3 019	10 958	2300	1500	2300	5230	
09:00 - 10:00	3 019	10 958	2300	1500	2300	5230	
10:00 - 11:00	3 019	10 958	2300	1500	2300	5230	
11:00 - 12:00	3 019	10 958	2300	1500	2300	5230	
12:00 - 13:00	3 019	10 958	2300	1500	2300	5230	
13:00 - 14:00	3 019	10 958	2300	1500	2300	5230	
14:00 - 15:00	3 019	10 958	2300	1500	2310	5230	
15:00 - 16:00	3 019	10 958	2300	1500	2300	5230	
16:00 - 17:00	3 019	10 958	2300	1500	2300	5230	
17:00 - 18:00	3 019	10 958	2300	1500	2300	5230	
18:00 - 19:00	3 019	10 958	2300	1500	2300	5230	
19:00 - 20:00	3 019	10 958	2300	1500	2300	5230	
20:00 - 21:00	3 019	10 958	2300	1500	2300	5230	
21:00 - 22:00	3 019	10 958	2300	1500	2300	5230	
22:00 - 23:00	3 019	10 958	2300	1500	2300	5230	
23:00 - 00:00	3 019	10 958	2300	1500	2300	5230	
00:00 - 01:00	3 019	10 958	2300	1500	2300	5230	
01:00 - 02:00	3 019	10 958	2300	1500	2300	5230	
02:00 - 03:00	3 019	10 958	2300	1500	2300	5230	
03:00 - 04:00	3 019	10 958	2300	1500	2300	5230	
04:00 - 05:00	3 019	10 958	2300	1500	2300	5230	
05:00 - 06:00	3 019	10 958	2300	1500	2300	5230	
			Set Maximum			Set Maximum	
	Default Value:	5230	Set Default	Set Default		Set Default	

Hourly details of allocated S-O for one given day



## 5.1.6 Capacity Booking - Daily storage Rights 🔳

Information about storage capacity bookings is retrieved for a period of 32 days: yesterday, today and 30 days in the future. The color code will help to identify the current month.

Book Daily S-O Screen

The upper section presents a daily average of the STO capacities over the timeline (horizontal axis); the major time steps are months and the minor ones are days (GasDays). Given the hourly resolution nature of the capacities, <u>the daily average is only informational</u>. The grey boxes represent the total booked capacity (via basic or additional rights), while the olive ones relates to either booked (future) or allocated (yesterday and today after 11am) capacities. Clicking on a given day in the upper section will load the hourly details for that day. By default, "today" is loaded. Note that values are given in m<sup>3</sup> LNG and are rounded.

Hourly Storage Capacity [m <sup>3</sup> LNG]					
19/09/2012	Reserved	Available	Requested	Daily Minimum	Allocated
06:00 - 07:00	99 218	180 741	Requested 1200	Planmum 1200	Allocated
07:00 - 08:00	98 634	182 430	1200	1200	N/A
08:00 - 09:00	980.89	184 119	1200	1200	N/A
09:00 - 10:00	97 525	185 808	1200	1200	N/A
10:00 - 11:00	96 960	187 497	1200	1200	N/A
11:00 - 12:00	96 396	189 186	1200	1200	N/A
12:00 - 13:00	95 831	190 875	1200	1200	N/A
13:00 - 14:00	95 267	192 564	1200	1200	N/A
14:00 - 15:00	94 7 0 2	194 253	1200	1200	N/A
15:00 - 16:00	94 138	55 942	1200	1200	N/A
16:00 - 17:00	93 573	58 191	1250	1200	N/A
17:00 - 18:00	93 009	60 440	1200	1200	N/A
18:00 - 19:00	92.444	62 689	1200	1200	N/A
10:00 - 20:00	91 880	64 920	1250	1200	N/A
20:00 - 21:00	91 315	67 187	1200	1200	N/A
21:00 - 22:00	90 751	69 436	1200	1200	N/A
22:00 - 23:00	90 186	71685	1200	1200	N/A
23:00 - 00:00	89 622	73 934	1200	1200	N/A
00:00 - 01:00	89 057	76 183	1250	1200	N/A
01:00 - 02:00	88 493	78 432	1200	1200	N/A
02:00 - 03:00	87 928	80 681	1200	1200	N/A
03:00 - 04:00	87 364	82 930	1200	1200	N/A
04:00 - 05:00	86 799	85 179	1200	1200	N/A
05:00 - 06:00	86 234	87 428	1200	1200	N/A
			Set Maximum		
	Default Value:	1200	Set Default	Set Default	
					Update Bookings

Hourly details of Storage bookings for one given day.

The buttons and text fields in the red rectangle are only available for users with role "validator" and/or "composer" in the LNG activity.

The "Set Maximum" button can be used to copy the content (exact value – without rounding) of the Available column to the Requested column. The "Set Default" button, used in combination with the "Default Value" box will copy the same value in all rows of a column. Use the "Update Bookings" button to validate the requested quantities. In contrast to the Transmission activity, where the composer user prepares bookings and the validator user validates these bookings, there is no validate action needed in the LNG activity. Both the composer user and the validator user can make bookings, and these are immediately accepted without any validation action.

When allocated (daily for next day @ 11 am), the capacities are available in the Allocated column and the update booking button is disabled. "N/A" in this column must be interpreted as not yet allocated, while "0" is to be interpreted as zero quantity allocated. Allocated quantities are also available in the consult Storage screen.

06:00 - 07:00 07:00 - 08:00 08:00 - 09:00 09:00 - 10:00	99 218 98 654	180 741 182 430	Requested 1200	Minimum 1200	Allocated
08:00 - 09:00 09:00 - 10:00		100.400			
09:00 - 10:00		182 430	1200	1200	
	98 089	184 119	1200	1200	
	97 525	185 808	1200	1200	
10:00 - 11:00	96 960	187 497	1200	1200	
11:00 - 12:00	96 396	189 186	1200	1200	
12:00 - 13:00	95 831	190 875	1200	1200	
13:00 - 14:00	95 267	192 564	1200	1200	
14:00 - 15:00	94 702	194 253	1200	1200	
15:00 - 16:00	94 138	55 942	1200	1200	
16:00 - 17:00	93 573	58 191	1200	1200	
17:00 - 18:00	93 009	60 440	1200	1200	
18:00 - 19:00	92.444	62 689	1200	1200	
10:00 - 20:00	91 990	64 929	1200	1200	
20:00 - 21:00	91 315	67 187	1200	1200	
21:00 - 22:00	90 7 5 1	69 436	1200	1200	
22:00 - 23:00	90 186	71 685	1200	1200	
23:00 - 00:00	89 622	73 934	1200	1200	
00:00 - 01:00	89 057	76 183	1200	1200	
01:00 - 02:00	88 493	78 432	1200	1200	
02:00 - 03:00	87 928	80 681	1200	1200	
03:00 - 04:00	87 364	82 930	1200	1200	
04:00 - 05:00	86 7 9 9	85 179	1200	1200	
05:00 - 06:00	86 234	87 428	1200	1200	
			Set Maximum		
	Default Value:	1200	Set Default	Set Default	

Hourly details of allocated Storage for one given day

## 5.1.7 Capacity Booking – Stand Alone Send Out Rights 🖬

Start Date:		Stand Alone Send Out can be booked FOFS either within day (as a balance of day product, with a minimum lead time of full hour + 2) or ias from day-alread for any duration of gas
End Date (included):		days. The End Date cannot be later than 31/12/2023. The regulated tariffs are updated every month on the Fixaya website berg
Requested Quantity: MWh/	à	
	Book	

The buttons and text fields are only available for users with role "validator" and/or "composer" in the LNG activity.

In contrast to the Transmission activity, where the composer user prepares bookings and the validator user validates these bookings, there is no validate action needed in the LNG activity. Both the composer user and the validator user can make bookings, and these are immediately accepted without any validation action.

Stand Alone Send Out can be booked for a <u>minimum period of 1 Gas Day</u> and with an End Date not later than 31/12/2023.

Your booking was suc	cessiully saved		
Start Date:	17/06/2020		
End Date (included):	18/06/2020		
Quantity:	1000	MWh/h	

The confirmation for the booking is made on the screen with the mention 'Your booking was successfully saved' (see above).

You can find your booking in the 'Stand Alone' column in the tab 'Capacity Rights – Send Out Capacity Rights' (see 6.1.3.).

#### 5.1.8 Available Virtual Liquefaction capacity

The Virtual liquefaction service allows Terminal Users to create LNG by counter nominating gas to the Terminal. It's a conditional service since the availability depends on the total net nominations for regasification exceeding the minimum send out requirements.



Daily expected Virtual Liquefaction availabilities in MWh/h at Terminal Zeebrugge for the concerned gas day, based on the difference between nominations received at 4PM CET and the minimum regasification flow needed.

# 5.2 Scheduling

## 5.2.1 AMS - Available Monthly Slots 🔳

												વા પ્ર આ
Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
9.34	8.72	9.34	9.03	9.34	9.03	9.34	11.52	8.45	11.52	11.14	11.52	118.
3.85	2.66	3.85	3.76	5.85	4.76	3.85	3.85	2.09	2.85	2.76	2.85	43.
	0.00 0.00 9.34	0.00 0.00 0.00 0.00 9.34 8.72	0.00 0.00 0.00 0.00 0.00 0.00 9.34 8.72 9.34	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00         0.00         0.00         0.00         0.00         0.00           0.00         0.00         0.00         0.00         0.00         0.00           9.34         8.72         9.34         9.03         9.34         9.03	0.00         0.00 <th< td=""><td>0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0</td><td>0.60 6.00 0.00 0.00 0.00 0.00 0.00 0.00</td><td>0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0</td><td>0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0</td><td>0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0</td></th<>	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.60 6.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0

By default the last published version for the current year is loaded. The color code will help to identify the current month; the combo boxes allow a quick navigation to any published version of the AMS for the previous, current and next year.

The "Download Documents" button will allow the download of this information in XML format

# 

## 5.2.2 IBS - Indicative berthing Schedule 🔳

IBS Consult Screen

By default the last published version for the current year is loaded. The color code will help to identify the current month; the combo boxes allow a quick navigation to any published version of the IBS for the previous, current and next year.

The upper section presents the planned slots over the timeline (horizontal axis); the major time steps are months and the minor ones are High-Tides. Slots are represented as boxes with a duration of 20 High Tides. The lower section presents the same information in a tabular view. Using the scrollbars, the user can move over the timeline. Clicking on a slot in both the upper and lower section will load detailed information about the planned slot.

ear: 2012 💌 R	evision: 3 - 10/10/2011 14:56						
							<11 N
ndicative Berthing S	chedule						
	56	ep-2012					
	987 989 991 993 995 997 999 10	01 1003 1005 1007 1009 1011 101	3 1015 1017 1019 1021 1023 1025 1027 1029 1031 1033 1035 10	7 1039 1041 1043 1045 1047 1049 1051 1053 105	5 1057 1059 1061 1063 1065 1063	1069 1071 1073 1075 1077 1079 10	81 1083 1085 1087 1089 109
8							
7							
6							
5							
4				Other Terminal User 2 27/09.	/2012 12:29		
3				erminal User 2 24/09/2012 21:29			Other Termin
2 08/09/2012			Other Terminal User 2 19/09/2012 16:31		Other Terminal User	2 01/10/2012 15:07	
	nal User 11/09/2012 10:39		This Terminal User 22/09/2012 0	5:30		This Terminal User 04/10/20	012 04:40
*					m		
	lot Schedulings	Slot Details					
HT Moment	HT Shipper						
HT Moment	HT Shipper	Slot Details	22/09/2012 06:30	_			
HT Moment 5/06/2012 00/20 1/08/2012 14:12	HT Shipper 531 Octore terminar over 2 941 This Terminal User	<ul> <li>High Tide Moment:</li> </ul>					
HT Noment 5/06/2012 00:20 1/08/2012 14:12 5/09/2012 05:45	HT Shipper 534 Ottowr (Witminian Ower 2 941 This Terminal User 963 Other Terminal User 1		22/09/2012 06:30 1025				
HT Noment 1/08/2012 14:12 5/09/2012 05:45 8/09/2012 19:14	HT Shipper 941 This Terminal User 953 Other Terminal User 1 973 Other Terminal User 2	<ul> <li>High Tide Moment:</li> </ul>					
HT Moment 5/06/2012 14:12 5/09/2012 05:45 8/09/2012 19:14 1/09/2012 10:39	HT Shipper State Stremman User 963 Other Terminal User 1 973 Other Terminal User 2 983 This Terminal User 2	<ul> <li>High Tide Moment:</li> <li>Hight Tide:</li> <li>Shipper:</li> </ul>	1025 This Terminal User				
HT Noment 5/08/2012 14:12 5/09/2012 05:45 8/09/2012 19:14 1/09/2012 10:39 9/09/2012 16:31	HT Shipper State Stremman User 963 Other Terminal User 1 973 Other Terminal User 2 983 This Terminal User 2	<ul> <li>High Tide Moment:</li> <li>Hight Tide:</li> </ul>	1025				
HT Moment 5/06/2012 14:12 5/09/2012 05:45 8/09/2012 19:14 1/09/2012 10:39 9/09/2012 16:31 2/09/2012 06:30	HT Shipper 241 This Terminal User 963 Other Terminal User 963 Other Terminal User 963 This Terminal User 963 This Terminal User 1015 Other Terminal User	<ul> <li>High Tide Moment:</li> <li>Hight Tide:</li> <li>Shipper:</li> </ul>	1025 This Terminal User				
HT Moment 1/08/2012 14:12 5/09/2012 05:45 8/09/2012 19:14 1/09/2012 10:39 9/09/2012 16:31 2/09/2012 06:30 4/09/2012 21:29	HT Shipper 941 This Terminal User 953 Other Terminal User 953 Other Terminal User 953 This Terminal User 1015 Other Terminal User 1025 This Terminal User 1035 Other Terminal User	<ul> <li>High Tide Moment:</li> <li>Hight Tide:</li> <li>Shipper:</li> </ul>	1025 This Terminal User				
HT Noment 1/08/2012 14/12 1/08/2012 05/45 3/09/2012 05/45 3/09/2012 10:13 1/09/2012 10:39 3/09/2012 16:31 2/09/2012 06:30 4/09/2012 21:29	HT         Shipper           25.1         Output training tokes at 94.1         This Terminal User           96.3         Other Terminal User         19.3           97.3         Other Terminal User         19.3           1015         Other Terminal User         10.3           1015         Other Terminal User         10.3           1025         This Terminal User         10.3           1033         Other Terminal User         10.4           1044         Other Terminal User         10.4	<ul> <li>High Tide Moment:</li> <li>Hight Tide:</li> <li>Shipper:</li> </ul>	1025 This Terminal User				
HT Moment (106)2012 40120 (108)2012 4121 (108)2012 4121 (109)2012 05:45 (109)2012 10:39 (109)2012 16:31 209)2012 06:30 (109)2012 12:29 (10)2012 15:07	HT         Shipper           SAM         Guass reminal User           941         This Terminal User           953         Other Terminal User           973         Other Terminal User           1015         Other Terminal User           1025         Other Terminal User           1035         Other Terminal User           1045         Other Terminal User           1045         Other Terminal User 2           1045         Other Terminal User 2	<ul> <li>High Tide Moment:</li> <li>Hight Tide:</li> <li>Shipper:</li> </ul>	1025 This Terminal User				
HT Norment 5/06/2012 10/12/07/2012 00/12/07/2012 6/09/2012 10/14 1/09/2012 10/14 1/09/2012 10/13/ 1/09/2012 10/13/ 1/09/2012 12/29 1/09/2012 12/29 1/10/2012 15/07 4/02/212 04/40	HT         Shipper           25.1         Output training tokes at 94.1         This Terminal User           96.3         Other Terminal User         19.3           97.3         Other Terminal User         19.3           1015         Other Terminal User         10.3           1015         Other Terminal User         10.3           1025         This Terminal User         10.3           1033         Other Terminal User         10.4           1044         Other Terminal User         10.4	<ul> <li>High Tide Moment:</li> <li>Hight Tide:</li> <li>Shipper:</li> <li>Ship:</li> </ul>	1025 This Terminal User				
HT Noment 3/06/2012 0/12/0 6/09/2012 05:45 6/09/2012 05:45 8/09/2012 10:39 9/09/2012 16:31 2/09/2012 10:39 9/09/2012 12:29 1/09/2012 12:29 1/10/2012 15:107 4/10/2012 04:40 8/10/2012 04:54	Storm         Storm           941         This Terminal User           943         This Terminal User           944         This Terminal User           945         This Terminal User           945         This Terminal User           946         Other Terminal User           947         This Terminal User           948         Terminal User           949         This Terminal User           940         This Terminal User           941         Terminal User           945         This Terminal User           946         Other Terminal User           947         This Terminal User           948         Other Terminal User           949         This Terminal User           949         This Terminal User           940         This Terminal User           941         This Terminal User           945         This Terminal User           947         This Terminal User	<ul> <li>High Tide Moment:</li> <li>Hight Tide:</li> <li>Shipper:</li> <li>Ship:</li> </ul>	1025 This Terminal User				
HT Research 30.0012 (10.0012) 11/08/2012 (14.12) (609/2012 05.45 18/09/2012 05.45 18/09/2012 10.39 9/09/2012 10.39 9/09/2012 12.29 11/09/2012 12.29 11/00/2012 15.07 14/10/2012 15.07 14/10/2012 23.30 11/00/2012 33.11	Shipper         Shipper           0.1         Shipper         Shipper           941         This Terminal User         Shipper           953         Other Terminal User         This Terminal User           973         Other Terminal User         Shipper           9103         This Terminal User         This Terminal User           1015         Other Terminal User         Shipper Terminal User           1015         Other Terminal User         This Terminal User           1045         Other Terminal User         This Terminal User           1046         Other Terminal User         This Terminal User	<ul> <li>High Tide Moment:</li> <li>Hight Tide:</li> <li>Shipper:</li> <li>Ship:</li> </ul>	1025 This Terminal User				

Slot details in IBS for own slots

Note that details are only available for own slots. Slots owned by other parties are also visualized, but not all details can be accessed.

Year: 2012 💌 R	evision: 3 - 10/10/2011 14:56					sti M sti
Indicative Berthing S	Schedule					
		ep-2012				
HT 81 083 085			013 1015 1017 1019 1021 1023 1025 1027 1029 1031	1033 1035 1037 1039 1041 1043 1045 1047 1049 1051 1053 10	55 1057 1059 1061 1063 1065 1067 1069 1071 1073 1075 1077 1079	1081 1083 1085 1087 1089 1091 109
7 6 5 4				Other Terminal User 2 27/09 Other Terminal User 2 24/09/2012 21:29	V2012 12:29	Other Terminal Use
2 08/09/2012	10.14		Other Terminal User 2 19/09/2012 16:31	Other Terminal Oser 2 24/09/2012 21129	Other Terminal User 2 01/10/2012 15:07	Other Terminal Use
	inal User 11/09/2012 10:39		This Terminal User 2:	2/09/2012 06:20	This Terminal User 04/10	2012 04:40
Indicative Berthing S HT Moment		Slot Details				
23/00/2012 00/20	HT Shipper	A High Tide Moment:	19/09/2012 16:31			
23/08/2012 14:12	941 This Terminal User					
31/08/2012 14:12 06/09/2012 05:45	941         This Terminal User           963         Other Terminal User 1	<ul> <li>High Tide Moment:</li> <li>Hight Tide:</li> </ul>	19/09/2012 16:31 1015			
25/06/2012 00:20 31/08/2012 14:12 06/09/2012 05:45 08/09/2012 19:14	931         Other remnar over z           941         This Terminal User           963         Other Terminal User 1           973         Other Terminal User 2					
23;06;2012:00:20 31/08/2012:14:12 06/09/2012:05:45 08/09/2012:19:14 11/09/2012:10:39	951         Other terminal User           941         This Terminal User           963         Other Terminal User           973         Other Terminal User           983         This Terminal User	Hight Tide: Shipper:	1015 Other Terminal User 2			
25/06/2012 00:20 31/08/2012 14:12 06/09/2012 05:45 08/09/2012 19:14	931         Other remnar over z           941         This Terminal User           963         Other Terminal User 1           973         Other Terminal User 2	Hight Tide:	1015			
27.09/2012 00/20 31/08/2012 14:12 06/09/2012 05:45 08/09/2012 19:14 11/09/2012 10:39 19/09/2012 16:31 22/09/2012 06:30	201         Other Terminal User           941         This Terminal User           963         Other Terminal User           973         Other Terminal User           983         This Terminal User           1015         Other Terminal User 2	Hight Tide: Shipper:	1015 Other Terminal User 2			
23/08/2012 14:12 06/09/2012 15:45 08/09/2012 19:14 11/09/2012 10:39 19/09/2012 16:31 22/09/2012 06:30 24/09/2012 21:29	941         Other terminal user           941         This Terminal User           963         Other Terminal User           973         Other Terminal User           983         This Terminal User           1015         Other Terminal User           1025         This Terminal User	Hight Tide: Shipper:	1015 Other Terminal User 2			
23109/2012 14:12 06/09/2012 19:14 11/09/2012 19:14 11/09/2012 10:39 19/09/2012 16:31 22/09/2012 16:30 24/09/2012 21:29	941         Uture recomma User           941         This Terminal User           963         Other Terminal User           983         This Terminal User           1015         Other Terminal User           1025         This Terminal User           1025         This Terminal User           1035         Other Terminal User	Hight Tide: Shipper:	1015 Other Terminal User 2			
23)09/2012 14:12 06/09/2012 14:12 08/09/2012 19:14 11/09/2012 19:14 11/09/2012 10:39 19/09/2012 16:31 22/09/2012 21:29 24/09/2012 21:29 01/10/2012 15:07	204         Other Terminal User           941         This Terminal User           963         Other Terminal User           973         Other Terminal User           983         This Terminal User           1015         Other Terminal User           1025         This Terminal User           1025         This Terminal User           1035         Other Terminal User           1045         Other Terminal User	Hight Tide: Shipper:	1015 Other Terminal User 2			
27/09/2012 14:12 06/09/2012 14:12 06/09/2012 19:14 11/09/2012 10:39 19/09/2012 10:39 22/09/2012 16:31 22/09/2012 05:30 24/09/2012 21:29 27/09/2012 12:29 01/10/2012 05:07 04/10/2012 04:40	>>         Other Terminal User           941         This Terminal User           963         Other Terminal User           973         Other Terminal User           983         This Terminal User           1015         Other Terminal User           1025         This Terminal User           1025         Other Terminal User           1035         Other Terminal User           1045         Other Terminal User	Hight Tide: Shipper: Ship:	1015 Other Terminal User 2			
23;00;2012:00:20 31/08/2012:14:12 06/09/2012:05:45 08/09/2012:19:14 11/09/2012:10:39 19/09/2012:16:31	>>         Octom remnant over 1           941         This Terminal User           963         Other Terminal User           973         Other Terminal User           983         This Terminal User           1015         Other Terminal User           1025         This Terminal User           1035         Other Terminal User           1046         Other Terminal User           1045         Other Terminal User           1066         Other Terminal User           1071         This Terminal User           1071         This Terminal User	Hight Tide: Shipper: Ship:	1015 Other Terminal User 2			
27) 09/2412 00/20 31/08/2012 14:12 08/09/2012 15:14 11/09/2012 15:14 11/09/2012 16:31 22/09/2012 16:31 22/09/2012 16:30 24/09/2012 21:29 01/10/2012 12:29 01/10/2012 12:07 04/10/2012 06:54	P2-0         Usame terminal toer           044         This Terminal User           963         Other Terminal User           973         Other Terminal User           983         This Terminal User           1015         Other Terminal User           1025         This Terminal User           1035         Other Terminal User           1035         Other Terminal User           1045         Other Terminal User           1046         Other Terminal User           1047         Other Terminal User           1048         Other Terminal User           1049         Other Terminal User           1051         Other Terminal User           1061         Other Terminal User	Hight Tide: Shipper: Ship:	1015 Other Terminal User 2			

Slot details in IBS for other grid user's slots

Scheduling - Rolli	ng Berthing S	chedule					
Year: 2012 💌 R	evision: 45 - 31/0	8/2012 15:31	•				-til 10 10+1 10+2 10+3 >0043
Rolling Berthing Sche							
		Sep-2	1012				
HT 31 983 985	987 989 991 993	995 997 999 1001	1003 1005 1007 1009 101	1 1013 1015 1017 1019 1021 1023 1025 1027 102	1031 1033 1035 1037 1039 1041 1043 1045 1047 10	049 1051 1053 1055 1057 1059 1061 1063 1065 1067 1069 1071	1073 1075 1077 1079 1081 1083 1085 1087 1089 1091 1093
8							
7							
5							
4 08/09/2012	19:14				Other Termi	inal User 2 27/09/2012 12:29	
3					Other Terminal User 2 24/09/2012 2:		
2				Other Terminal User 2 19/09/2012 16:	1		
1 This Termi	nal User 11/09/2012	10:39		This Terminal	Jser 22/09/2012 06:30		
3							•
Rolling Barthing Slot FF Sector 15/08/2012 (3):11 18/08/2012 (2):38 20/08/2012 (2):38 20/08/2012 (2):38 20/08/2012 (2):08 20/08/2012 (2):08 20/08/2012 (2):08 20/08/2012 (2):08 20/08/2012 (2):08 10/09/2012 (1):38 20/09/2012 (1):38 20/09/2012 (2):29 24/09/2012 (2):29	нт 879 Оther 899 Other 909 Other 919 Other 919 Other 911 Other 911 This T 951 Other 953 Other 933 Other 983 This T 1015 Other 9125 This T	Terminal User 2 Terminal User 1 Erminal User 1 Erminal User 2 Terminal User 2 Terminal User 2 Terminal User 3 Terminal User 3 Terminal User 3 Terminal User 2 Erminal User 3 Erminal Erminal User 3 Erminal User 3 Ermin	-				
							Download Documents
					anguilt Soroon		

5.2.3 RBS - Rolling Berthing Schedule 🔳

By default the last published version for the current year is loaded. The color code will help to identify the current month as well as M+1, M+2 and M+3 related information; the combo boxes allow a quick navigation to any published version of the RBS for the previous, current and next year.

The upper section presents the planned slots over the timeline (horizontal axis); the major time steps are months and the minor ones are High-Tides. Slots are represented as boxes with a duration of 20 High Tides. The lower section presents the same information in a tabular view. Using the scrollbars, the user can move over the timeline. Clicking on a slot in both the upper and lower section will load detailed information about the planned slot.

8			003 1005 1007 1009 1011 101	1015 1017 1019 1021 1023 1025 1027 1029 1031 1033 1035 1037 1039 104	1 1043 1045 1047 1049 1051 1053	1055 1057 1059 1061 1063 1065 1	067 1069 1071 1073 1075 1077 1079 1081 1083 1085 1087 1089 1
7							
6							
5							
4 08/09/2012	19:14				Other Terminal User 2 27.	/09/2012 12:29	and the second
3					2 24/09/2012 21:29		
2 1 This Termi		9/2012 10:39		Other Terminal User 2 19/09/2012 16:31			
1 This Termi	inal User 11/	9/2012 10:39		This Terminal User 22/09/2012 06:30			
lling Berthing Slot	and a state of the		Slot Details				
			Sibt Details				
HT Moment	нт					LNG Transfer	
08/2012 13:11	879	Other reminal Oser 2	<ul> <li>Hight Tide Moment:</li> </ul>	22/09/2012 06:30		Volume Quantity:	140 395 m² LNG
/08/2012 02:38	889	Other Terminal User 1	Hight Tide:	1025			
08/2012 16:10	899	This Terminal User	Shipper:	This Terminal User		Energy Quantity:	945 000 000 kWh
08/2012 06:02	909	Other Terminal User 2	shipper.	This reminal user		Gross Heating Value:	6 731 kWh/m <sup>s</sup> LNG
08/2012 20:20 08/2012 00:20	919	Other Terminal User 2 Other Terminal User 2	Ship:	My Ship			
08/2012 14:12	941	This Terminal User	ETA:	22/09/2012 00:30		Basic Send Out Rights	
09/2012 03:51	951	Other Terminal User 3				-	
/09/2012 05:45	963	Other Terminal User 1	ETD:	23/09/2012 06:30		Capacity:	4 200 MWh/h
09/2012 19:14	97.3	Other Terminal User 2	Berthing Type:	Unloading		Duration:	249 GasHours
09/2012 10:39	983	This Terminal User					
/09/2012 16:31	1015	Other Terminal User 2	1			Basic Storage Rights	
09/2012 06:30	1025	This Terminal User	3				
/09/2012 21:29	1035	Other Terminal User 2	<b>*</b>			Capacity:	140 000 m² LNG
						Duration:	249 GasHours

Slot details in RBS for own slots

Note that details are only available for own slots. Slots owned by other parties are also visualized, but not all details can be accessed. Unsubscribed slots (not owned by any parties but reserved by Fluxys LNG for further commercialization) are also explicitly visible.

HT 1 983 985	987 989 99	Sep-2 1 993 995 997 999 1001 1		1015 1017 1019 1021 1023 1025 1027 1029 1031 1033 1035 1037 1039 1041 10	13 1045 1047 1049 1051 1053 105	i5 1057 1059 1061 1063 1065 1	067 1069 1071 1073 1075 1077 1079 1081 1083 1085 1087 108
5							
4 08/09/2012 1	9:14				Other Terminal User 2 27/09	/2012 12:29	
3				Other Terminal User 2 2	4/09/2012 21:29		
2				Other Terminal User 2 19/09/2012 16:31			
	al User 11/	09/2012 10:39		This Terminal User 22/09/2012 06:30			
						, m	al de la constante de la consta
lling Berthing Slot !	Schedulin	ns	Slot Details				
HT Moment	н						
			<ul> <li>Hight Tide Moment:</li> </ul>	19/09/2012 16:31		LNG Transfer	
/08/2012 13:11	879	Other Terminal User 2				Volume Quantity:	N/A m <sup>a</sup> LNG
/08/2012 02:38 /08/2012 16:10	889 899	Other Terminal User 1 This Terminal User	Hight Tide:	1015		Energy Quantity:	N/A kWh
08/2012 16:10	909	Other Terminal User 2	Shipper:	Other Terminal User 2			
/08/2012 20:20	919	Other Terminal User 2				Gross Heating Value:	N/A kWh/m² LNG
08/2012 00:20	931	Other Terminal User 2	Ship:	N/A			
/08/2012 14:12	941	This Terminal User	ETA:	N/A		Basic Send Out Rights	
/09/2012 03:51	951	Other Terminal User 3	ETD:	N/A		Capacity:	N/A MV/b/b
/09/2012 05:45	963	Other Terminal User 1	EID.	REA.		Capacity.	INA MYTHIT
/09/2012 19:14	973	Other Terminal User 2	Berthing Type:	N/A		Duration:	N/A GasHours
/09/2012 10:39	983	This Terminal User					
/09/2012 16:31	1015	Other Terminal User 2	-			Basic Storage Rights	
2/09/2012 06:30	1025	This Terminal User	1				
/09/2012 21:29	1035	Other Terminal User 2	<b>X</b>			Capacity:	N/A m <sup>a</sup> LNG
						Duration:	N/A GasHours

Slot details in RBS for other grid user's slots

#### 5.2.4 BS - Berthing Schedule 💷

riod: 1	1/08/2012 - 11	/09/2013					Departed	Berthing	Expected	Queuing	Car
orthing :	Schedule Priority	Scheduled	Shipper	Ship	ETA	Expected Berthing Noment	Timing		Status		Туре
26	1	03/09/2012 03:51	Other Terminal User 3	N/A	29/08/2012 21:56	30/08/2012 01:56	Early	Berthing		N/A	
	1	19/09/2012 16:31	Other Terminal User 2	N/A	19/09/2012 10:31	19/09/2012 14:36	Early	Expected		N/A	
	1	22/09/2012 06:30	This Terminal User	My Ship	22/09/2012 00:30	22/09/2012 04:35	Early	Expected		Unloading	

**BS** Consult Screen

The list of past, current and planned berthing/unloading is loaded for a period of one month in the past and one year in the future.

The upper section presents the information in a tabular view, using a color scheme to distinguish past from upcoming events. The timing information ("Early", "On Time", "Late") relates to the difference between the last communicated ETA (Estimated Time of Arrival) and the slot start time, with regards to the berthing window. This timing is only informational. The status information ("Expected", "Berthing", "Queuing", "Departed, "Cancelled") relates to the progress of the (un)loading. The type can be loading or unloading according to the type of berthing purpose.

Clicking on a row (one berthing) will load detailed information over the berthing timesheet of this (un)loading. Note that this information is only available for own slots. Event moment is indicated with a status ("Expected", "Registered", "Validated") and always reflects the last updated situation. "Expected" relates to the <u>calculated event moment</u>, based on standard process time and previous event time. "Registered" refers to the provisional event moment (if "registered" differs from "expected", upcoming events will be updated). "Validated" refers to the final event moment.

Period: 11/08/2012 - 11/	09/2013						Departed B	Berthing	Expected	Queuing	Cancell
Berthing Schedule											
Slot Priority	Scheduled	Shipper	Ship	ETA	Expected Berthing Moment		Timing		Status		Туре
126 1	03/09/2012 03:51		/A	29/08/2012 21:56	30/08/2012 01:56	Early		Berthing		N/A	
72 1 28 1	19/09/2012 16:31 22/09/2012 06:30		/A ly Ship	19/09/2012 10:31 22/09/2012 00:30	19/09/2012 14:36 22/09/2012 04:35	Early Early		Expected Expected		N/A Unleading	
erthing Time Sheet				_							
rrived At PBS	Event Name	Event Moment	Status	_							
rrived At PBS OR Tendered		22/09/2012 00:30 22/09/2012 00:35	Expected Expected								
		22/09/2012 00:35	Expected								
DR Assessed											
lots On Board		22/09/2012 00:40	Expected								
lots On Board Il Fast		22/09/2012 00:40 22/09/2012 04:35	Expected								
ilots On Board Il Fast hore Gangway In Position		22/09/2012 00:40	Expected								
OR Accepted ilots On Board Il Fast here Gangway In Position ORTU Tendered rms Connected		22/09/2012 00:40 22/09/2012 04:35 22/09/2012 04:45	Expected Expected Expected								
ilots On Board II Fast hore Gangway In Position ORTU Tendered		22/09/2012 00:40 22/09/2012 04:35 22/09/2012 04:45 22/09/2012 04:45	Expected Expected Expected Expected								
ilots On Board II Fast hore Gangway In Position ORTU Tendered rms Connected ORTU Accepted	Arms Started	22/09/2012 00140 22/09/2012 04:35 22/09/2012 04:45 22/09/2012 05:45 22/09/2012 06:15	Expected Expected Expected Expected Expected								
lots On Board Il Fast nore Gangway In Position ORTU Tendered rms Connected ORTU Accepted Noldown Deckpiping / LNG A		22/09/2012 00:40 22/09/2012 04:35 22/09/2012 04:45 22/09/2012 05:45 22/09/2012 05:15 22/09/2012 07:15	Expected Expected Expected Expected Expected Expected								
ilots On Board II Fast hore Gangway In Position ORTU Tendered rms Connected		22/09/2012 00:40 22/09/2012 04:45 22/09/2012 04:45 22/09/2012 06:45 22/09/2012 06:15 22/09/2012 07:15 22/09/2012 07:15	Expected Expected Expected Expected Expected Expected Expected								
lots On Board IF Fast IF Fast DRTU Tendered MITU Tendered MITU Accepted Ondown Deckpiping / LING A Joading Started Aloading Ended		22/09/2012 00:40 22/09/2012 04:45 22/09/2012 04:45 22/09/2012 05:45 22/09/2012 05:45 22/09/2012 05:45 22/09/2012 07:35 22/09/2012 07:35	Expected Expected Expected Expected Expected Expected Expected								
lots On Board IF ast bore Gangway In Position SRTU Tendered ORTU Accepted olodown Deckpiping / LNG A loading Started loading Started IG Arms Disconnected		22/09/2012/0040 22/09/2012/04/35 22/09/2012/04/45 22/09/2012/04/45 22/09/2012/04/45 22/09/2012/04/35 22/09/2012/04/35 22/09/2012/04/35 22/09/2012/04/35 22/09/2012/04/35	Expected Expected Expected Expected Expected Expected Expected Expected Expected Expected								
lots On Board IF art IF art SRTU Tendered SRTU Accepted SRTU Accepted Soldown Deckpiping / LNC A Ioading Started Start		220%21210%0 220%2120%0 220%2120%3 220%2120%3 220%2120%3 220%2120%3 220%2120%3 220%2120%3 220%2120%3 220%2120%3 220%2120%3 220%2120%3 220%2120%3 20%3 20%3 20%3 20%3 20%3 20%3 20%3	Expected Expected Expected Expected Expected Expected Expected Expected Expected Expected Expected								
lots On Board IF ast one Cangway In Position DRTU Tendered SRTU Accepted Noldown Deckpiping / LNG A Joading Estade Noading Ested KG Arms Disconnected apour Arms Disconnected		220%212 00-40 220%212 04-45 220%212 04-45 220%212 04-45 220%212 04-45 220%212 04-45 220%212 04-15 220%212 04-15 220%212 04-15 220%212 04-15 220%212 04-15 220%212 04-15 20%212 04-15	Expected Expected Expected Expected Expected Expected Expected Expected Expected Expected Expected Expected								
ilots On Board II Fast here Gangway In Position ORTU Tendered rms Connected ORTU Accepted Soldown Deckpiping / LNC A soldown Deckpiping / LNC A		220%21210%0 220%2120%0 220%2120%3 220%2120%3 220%2120%3 220%2120%3 220%2120%3 220%2120%3 220%2120%3 220%2120%3 220%2120%3 220%2120%3 220%2120%3 20%3 20%3 20%3 20%3 20%3 20%3 20%3	Expected Expected Expected Expected Expected Expected Expected Expected Expected Expected Expected								

Berthing timesheet details

## 5.3 Ship approval

## 5.3.1 Request for Ship Approval

The Grid-User has to fill out the 'Request for Ship Approval' when a Grid-User intends to use an LNG vessel which has not yet been approved and is therefore not mentioned on the 'List of Approved Ships for Zeebrugge LNG Terminal'.

Link to Fluxys site: <u>https://www.fluxys.com/en/products-services/Ing-ship-approval-procedure</u>

rst name	
pany	
e	
ail	
minal user	
sel name(s) and IMO number(s)	~
	~
	If identical sister ships, mark with "=", e.g., Ship 1 (IMO soc)=Ship 2 (IMO soc) -Ship 3 (IMO soc)
at is de expected berthing slot to be	270. (1999) 7
d?	^
	~
	Z8621 🕈
	ZBGZT &

## 5.3.2 List of approved ships for the Zeebrugge LNG Terminal

List the ships which are currently approved according to the relevant procedures, to berth at the Zeebrugge LNG Terminal facility. Link to Fluxys site

## 5.3.3 Fluxys LNG ship approval procedure

Relevant Fluxys procedure for approval of ships. Link to Fluxys site: <u>https://www.fluxys.com/en/natural-gas-and-biomethane/products-services/lng-ship-approval-procedure</u>

## 5.4 Maintenance

#### 5.4.1 Work and intervention impact on LNG Terminal Zeebrugge

Terminal Operator shall, operate, maintain and repair the LNG Terminal and keep the LNG Terminal in good working order and condition in order to fulfil its obligations and operate the LNG Terminal in accordance with the standards of a Reasonable and Prudent Operator.

Terminal Operator has the right to shut-off, reduce or curtail all or part of the LNG Terminal for maintenance, repair or replacement works of the LNG Terminal which works may have an impact on the availability of the LNG Services.

The works and interventions overview lists the works and interventions planned for the current year that could affect the execution of your LNG terminal contracts

				Planned Work	XYS BELGIUM SA s and Interventions 2014-2015 Terminal Zeebrugge		FLU	хүѕ
Year	Month	Week	Nr Days Shutdown	Description	Impact	Impact From	Impact To	Status
2014	9	38	6	Shutdown 2014: Send Out	Reduced Send Out: 47 % from the send out available	14/09/2014	20/09/2014	Done
2015	5	20	8	Shutdown 2015	Reduced Send Out: 47% from the send out available	16/05/2015	24/05/2015	Scheduled
2015	5	20	2	Shutdown 2015	No slots available for loading/unloading LNG vessels	16/05/2015	18/05/2015	Scheduled
2015	5	20	4	Shutdown 2015	1 Ship unloading operation possible. No loading	18/05/2015	22/05/2015	Scheduled
2015	5	21	2	Shutdown 2015	No slots available for loading/unloading LNG vessels	22/05/2015	24/05/2015	Scheduled

Long Term Planned Works and Interventions with a possible impact on LNG Terminal Zeebrugge - Status on 31/10/2014

## 5.4.2 Planned Maintenance Events 🔳

	s					
ear: 2012 💌						Past Current Plan
lanned Maintenance Events						
Start Time	End Time	Installation	Impacted Service	Туре	Factor	Status
8/09/2012 12:00	18/09/2012 13:00	LngTerminalZeebrugge	SendOut	LongTerm	47%	Planned

The list of past, current and planned maintenance events is loaded for a given year. The combo box allows an easy navigation to the previous and upcoming year. By default the current year is loaded.

The upper section presents the information in a tabular view, using a color scheme to distinguish past from upcoming events. The status information ("Past", "Current", "Planned") relates to the progress of the planned maintenance (today compared to start date) and <u>not the actual execution of the maintenance itself</u>. Clicking on a row will load detailed information about the event.

Planned Maintenance Ever	nts					
Year: 2012 💌						Past Current Plane
Planned Maintenance Events Start Time	End Time	Installation	Impacted Service	Туре	Factor	Status
08/09/2012 12:00	18/09/2012 13:00	LngTerminalZeebrugge	SendOut	LongTerm	47%	Current
Planned Maintenance Event Def	tails					
Installation: Impacted Service:	LngTerminalZeebrugge SendOut					
Impacted Service: Impact Description:	SO2 out of service					
Maintenance Factor:	47%					
						Download Documen

Maintenance event details

The "Download Documents" button will allow the download of this information in XML format.

# 5.5 Metering

#### 5.5.1 Hourly refreshed measurements on nodes and lines 🔳

The data is based on the codification which makes it possible to visualize information on line-level for every type of metering configuration (e.g. 2 meters in series in one metering line).

When opening this section, the Hourly View with flow measurements for the last available hour is displayed for all the nodes.

On the left hand side a bar with all the available hours in the selected gasday is presented. Clicking on a specific hour will select this hour and display the measurements of this hour in the measurements grid. When changing the gasday the first gashour of that day is selected.



The center of the screen shows all the flow measurements on the selected gasday and gashour. For each node or metering line, a line is displayed with the following measurements:

- The amount of **Volume** that flowed through the node or metering line (Converted to normal conditions (0°C and 1 atm))
- The amount of Energy that flowed through the node or metering line during this hour
- The **GCV** calculated from the gas flow. This value is calculated as the fraction of Energy/Volume.
- The Pressure of the gas (absolute pressure expressed in Bara)
- The Temperature of the gas
- The Gross Volume is the physical volume of the gas at measured conditions.
- The **VnConv** is the normalized Volume that is measured by the volume converter.
- For a metering line, the value **Weight/In Maintenance** indicates the weight of the line (-1 / 0 / 0,5 / 1). Some examples :
  - If a metering line is in maintenance or subcounting, the weight of the metering line will be '0'.
  - o If two meters are installed in the same meteringline, the weight will be '0.5'

This makes that the metering results on node level are the summation of the consumptions (in Volume or Energy) of the different depending metering lines multiplied by their weight.

- The Status field shows the validation status of the measurements:
  - No Data
  - **Raw** data are measurements that are not at all verified or validated
  - Verified data means that a preliminary verification check has been done
  - Validated data means that extra checks have been executed and that the measurement is considered as accountable

Display Downl	oad			
Previous Day 🔇	05/09/2017	📎 Next Day	🏈 Last Available Report	
Local Hours	Node/Line	Delivery	Node Name	Volume [m³()
	HouerEnte	Point	Noue name	vouine [in [i
<u>06:00 - 07:00</u> 07:00 - 08:00	04100-N02/A/1	146	TERMINAL ZEEBRUGGE 1	41 755
08:00 - 09:00	04100-N02/A/2	146	TERMINAL ZEEBRUGGE 1	768
09:00 - 10:00	04100-N02/A/3	146	TERMINAL ZEEBRUGGE 1	147
10:00 - 11:00	04100-N02/A/4	146	TERMINAL ZEEBRUGGE 1	39 505
<u>11:00 - 12:00</u>	04100-N02/B/1	146	TERMINAL ZEEBRUGGE 1	41 695
40.00 40.00	04100-N02/B/2	146	TERMINAL ZEEBRUGGE 1	0

#### 5.5.1.1 Download

There are essentially two main options to download measurement information from the application:

- The user can download the information manually by using the Graphical User Interface.
- It is also possible to address the download feature directly by using the Download URL.

#### 5.5.1.1.1 Manual download by the user

The user can download the required information manually by navigating to the Download section for a certain gasday period on the filtered nodes and metering lines:

- Hourly Flow Measurements on Node
- Hourly Flow Measurements on Metering Line
- Hourly Gas Analysis on Node
- Daily Gas Analysis on Node

It is possible to choose between two different file formats:

- CSV
- XML

#### 5.5.1.1.2 Selection in manual download

#### In general:

If you do not filter on a node or metering line (in the cell 'containing'), the selected period <u>must</u> <u>not exceed 1 month</u>. The downloaded file will contain all the data of the nodes/metering lines for which you have view rights.

Containing In Internal Codification Number of Internal Business Identifier	Containing	in Internal Codification Number or Internal Business Identifier
--	------------	---

If you filter on a part of a node or metering line (some characters in the cell 'containing'), the selected period <u>must not exceed 1 month</u>. The downloaded file will contain all the data of the

nodes/metering lines which contain the characters you put in the filter and for which you have view rights.

Some particularities:

If you select 'Hourly Flow Measurements <u>on Node'</u> or 'Hourly Gas Analysis <u>on Node'</u>, and you <u>filter on the exact codification of a node</u> (in cell 'containing').<u>The selected period</u> <u>can be up to 1 year</u>.

Attention: The codification must be <u>absolutely accurate</u> (You can find the codification for nodes and lines in the display section or in topology section).

The codification (for node) must consist of 5 digits + N + 2 digits: 12345-N12

Hourl	y Flow Measurement on N	lode					
O Hourl	y Flow Measurement on N	letering Line					
O Hourl	y Gas Analysis on Node						
O Daily	Gas Analysis on Node						
Containing	22222-N01	in Inter	nal Codification N	lumber or Int	ernal Business Ide	entifier	
					00/40/0040	hour	24 🗸
From	01/09/2016 🔽	hour	1 🗸	to	08/12/2016	nour	
From Format Type		hour	1	to	08/12/2016	Nour	<u> </u>

If you select 'Hourly Flow Measurements <u>on Metering Line'</u>, and you <u>filter on the exact</u> <u>codification of a line</u> (in cell 'containing').<u>The selected period can be up to 1 year</u>. The codification must be <u>absolutely accurate</u> (You can find the codification for nodes and lines in the display section or in topology section).

The codification (for line) must consist of 5 digits + N + 2 digits + / + 1 letter + / + the number of the line: 12345-N12/A/1

0	Hourly Flow Me	asurement on N	lode					
۲	Hourly Flow Me	asurement on N	letering Line					
0	Hourly Gas Ana	lysis on Node						
0	Daily Gas Analy	sis on Node						
Containin	ıg 22222	-N01/A/1	in Inter	nal Codification	Number or In	ternal Business Identi	fier	
From	01/09/	2016 🔽	hour	1 🗸	to	08/12/2016 🔽	hour	24
11011								
Format	Туре							
	Tupe							

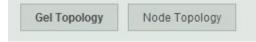
#### 5.5.1.1.3 Automatic download by an application

See chapter 6.

#### 5.5.2 Topology 🔳

This section provides information about the metering topology elements on which the user has the right to view data. The view rights are derived from the contracts which are based on Gas Exchange Locations. These gas exchange locations can be subdivided in a set of Nodes.

#### 5.5.2.1 Content



A Gas Exchange Location (GEL) consists of node memberships. A node can be a member of a GEL during a given time period. The membership has a weight with which the measurements of the respective node are aggregated in the result for the associated GEL. All this information can be found per GEL under the button **GEL Topology**. This option is accessible to limited users (It depends of their contractual link with Fluxys).

Under the **Node Topology** button a drop-down box can be found with all the nodes on which the user has the right to view data.

The whole history of the node and the underlying metering lines are shown after selecting a node. The node history consists of the name changes and the EAN number. The metering line history consists of the measured before status, operational status and the EAN number.

#### 5.5.2.2 Download

There are essentially two main options to download topology information from the application:

- The user can download the information manually by using the Graphical User Interface.
- It is also possible to address the download feature directly by using the Download URL.

#### 5.5.2.1.1 Manual download by the user

The user can download the required information manually by navigating to the Download section. This section provides selections to download the whole history of either:

- Gas Exchange Location Topology: for all GELs on which the user has the right to view data
- Node Topology: for all GELs on which the user has the right to view data

It is possible to choose between two different file formats:

- CSV
- XML

#### 5.5.2.1.2 Automatic download by an application

See chapter 6.

#### 5.5.3 Further remarks about Metering and Topology

#### 5.5.3.1 Aggregation of measurements

Since a Gas Exchange Location (GEL) consists of a set of nodes and a node consists of a set of metering lines, the measurements for a complete GEL should be aggregated.

We advise to start the aggregation for a complete GEL from the set of nodes and not from the set of metering lines! A metering line can go 'In Maintenance' or the measurements can already be accounted in the measurements of another metering line, i.e. 'Measured Before'.

The measurements on the node level take these two parameters into account and can therefore readily be used for the aggregations.

#### <u>Example</u>

What is the total energy on gas exchange location A at gas day X, hour Y?

The topology of gas exchange location A at gas day X and hour Y is:

- Membership 1: Node n1, weight w1 = -1
- Membership 2: Node n2, weight  $w^2 = -1$
- Membership 3: Node n3, weight w3 = 1

The measurements of nodes n1, n2 and n3 at gas day X and hour Y are:

- Node n1: e1 = 100 kWh
- Node n2: e2 = 200 kWh
- Node n3: e3 = 500 kWh

Calculation Total energy (e) = e1 \* w1 + e2 \*w2 + e3\*w3 = 100\*-1 + 200\*-1 + 500\*1 = 200 kWh

## 5.6 LNG Inventory & Allocations

#### 5.6.1 Inventories LNG Report

GIS	Gas In Storage
DANCF	Day-Ahead Nomination in Counter Flow
DANSO	Day-Ahead Nomination in Send-Out
FNCF	Final Nomination in Counter Flow
FNSO	Final Nomination in Send-Out
AllocCF	Allocation Counter Flow
AllocSO	Allocation Send-Out
PF	Physical Flow

GCV Gross Calorific Value in kWh/m<sup>3</sup>(n)

The Gas in Storage is either expressed in Energy (kWh) or in volume of LNG (m<sup>3</sup>[LNG]).

#### 5.6.2 Gas In Storage 📠

GIS data allows grid users to keep track of the amount of energy they have in storage in the Fluxys storage installations.

#### 5.6.2.1 Display

The Gas In Storage screen opens by default the last available GIS Report.

The GIS Report screen gives the ability to navigate through his user's GIS Reports of the last past 3 years. Therefore, he will find a calendar menu item where he can select the appropriate day for which he wants to consult the GIS Report. So, by changing the date, the user can navigate through all his available Reported Daily Imbalance Reports.

The title of each GIS Report consists of the gasday for which the report applies. The GIS data is delivered on a per hour basis. For every hour (expressed in local time) following elements are displayed:

- Begin and end time of the hour
- For each plant at which a grid user is active
- Amount of gas in storage (kWh)
- Total amount of gas in the tank (kWh)
- Generation time of the GIS message

The report is built up as the gasday progresses with a new line being added every hour. These are provisional data.

Gas in Storage			
Display Download			
Previous Day 🔇 05/09	/2012 💟 📎 Next Day	🖗 Last Available F	leport
05/09/2012	Loenhout		
Local Hours	GIS Position	Total GIS	Generated At
06:00 - 07:00			
07:00 - 08:00			
08:00 - 09:00			
09:00 - 10:00	Repo	rt Co	ntent
10:00 - 11:00			
11:00 - 12:00			
12:00 - 13:00			
13:00 - 14:00			
14:00 - 15:00			

#### 5.6.2.2 Download

There are two different ways in which the download features of the application can be used. These different options are intended for different sorts of use. On one hand, the user can download the desired information by using the Graphical User Interface. On the other hand, it is also possible to address the download feature directly by using the Download URL.EPORT CONTENT

#### 5.6.2.2.1 Manual download by the user

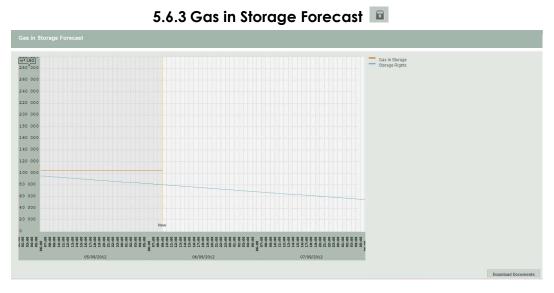
On one hand, the user can download the last available report or a range of reports using the Graphical User Interface by navigating to the download section of the application.

In the Gas In Storage screen, the user can specify all the parameters of the desired download.

The download procedure for the GIS Reports follows the same rules and principles as the download procedure of the Provisional Hourly Allocations. Therefore, we refer to paragraph **6.** Automatic downloads for more information on downloading report information.

Date R	lange Selection
۲	The last available Report
O	Select from a date range:
	From 05/09/2012 V To 05/09/2012 V
Output	File Type Selection
۲	CSV Format
O	XML Format

5.6.2.2.2 Automatic download by an application



A picture is loaded representing two curves: the GIS level in red, calculated until the last gashour and the total storage rights in blue. The picture displays an hourly detail for a period of 3 gasdays (yesterday, today and tomorrow).

The "Download Documents" button will allow the download of this information in XML format.

See chapter 6.

#### 5.6.4 Provisional Hourly Allocations 🔳

The 'Provisional Hourly Allocation Report' screen gives the ability to navigate through all of the user's Provisional Hourly Allocation reports of the past 3 years. The allocations are categorised by their respective gashour.

#### 5.6.4.1 Published data

For each gashour a list of all provisional allocations is given. Every allocation detail concludes the gashour and gasday, the shipper account, the EDIGAS-code of the location and the allocation value (expressed in kWh).

#### 5.6.4.2 Access to publications

The provisional hourly allocations can be accessed in three different ways: via the display section, the download section and via a download URL.

The display section allows the grid user to view and consult the provisional hourly allocations online and the download section and download URL give the grid user the ability to download the available allocations in different file formats for further usage.

#### 5.6.4.2.1 Display section

The last available Provisional Hourly Allocation Report will be displayed by default.

If the user wants to display the allocations for a different gashour, then he should first select the correct gasday with the calendar tool at the top left corner of the screen. By default the Allocations first gashour of the day is displayed. Then the correct gashour can be chosen from the bar on the left side of the screen.

Provisional Hourly Allocations	چَالعَدَ Available Report 03002012 13:12			
Local Hours Generated	11 03/09/2012 12:26:04			
06:00 - 07:00 Account	ConnectionPoint	Allocation (kWh)	ConnectionPoint Name	
07:00 - 08:00				
<u>08:00 - 09:00</u>				
00:00 10:00				
<u>10:00 - 11:00</u>				
11:00 - 12:00				
<u>12:00 - 13:00</u>	Repo	ort Con	tent	
<u>13:00 - 14:00</u> 14:00 - 15:00	nepe		cente	
15:00 - 16:00				
16:00 - 17:00				
17:00 - 18:00				
18:00 - 19:00				
<u> 19:00 - 20:00</u>				

Additionally to the allocation data, the generation date and time of the report is displayed on top of the screen.

#### 5.6.4.2.2 Download section

To manually download provisional hourly allocations, the user should select the download tab.

The download screen gives two options to download the provisional hourly allocations. The gasday or range of gasdays and the output file format can be chosen by the user.

Date range selection:

- Last available report
  - This option returns the provisional hourly allocations for the last gasday.
- Date range:

Select all the gasdays starting at gasday 'From' until gasday 'To'. The FROM date may not be later in time than the TO date and the maximum date range is limited to one week. The screen automatically changes the FROM or TO date if the maximum date range of one week is exceeded.

#### Output File Type Selection:

Three file types are available for manual download:

- CSV
- XML

Display	Download								
Date I	Range Selection								
O	The last available Report								
۲	Select from a date range:								
	From 03/09/2012 To	0.000			1				
	03/03/2012	03/09	9/201.	2 🔽					1
		1		z <u>v</u> Septe	·]	, 2012	2	×	
Outpu	t File Type Selection			Septe	·]	, 2013 Fr		) Su	1.
Outpu		4		Septe	mber				
۲	t File Type Selection	۲ Mo	Tu	Septe We	mber Th	Fr	Sa	Su	36
-	t File Type Selection	۲ Mo	<b>Tu</b> 28	Septe We 29 5	mber Th 30	<b>Fr</b> 31	Sa 1	<b>Su</b> 2	
۲	t File Type Selection	Mo 27 3	<b>Tu</b> 28 4	Septe We 29 5 12	mber Th 30 6	<b>Fr</b> 31 7	Sa 1 8 15 22	Su 2 9 16 23	7.
۲	t File Type Selection	4 Mo 27 3 10	<b>Tu</b> 28 4 11	Septe We 29 5 12 19	mber Th 30 6 13 20	<b>Fr</b> 31 7 14	Sa 1 8 15 22	Su 2 9 16 23	ay, September 15, 1

After the user has set the right parameters to download the desired Provisional Hourly Allocations and clicked the Download button, the File Download screen pops up, giving him/her the choice to directly open the file, or to save it.

Do you	want to open or save this file?
-	Name:isionalHourlyAllocation_20120903_20120905.cs
	Type: Application, 9,95KB
	From: gasdatadvi.fluxys.com
	Open Save Cancel
	While files from the Internet can be useful, some files can potentia harm your computer. If you do not trust the source, do not open or

#### 5.6.4.2.3 Automatic download URL

See chapter 6.

# 5.7 Invoicing

## 5.7.1 Allocation Details 🔳

As the filter option "All" is selected on the panel by default, the navigation panel shows all available invoicing months and allocation details versions. The user can use the Navigation Tree to select an allocation detail and view or download the document.

Filter	Defin	ition	
<ul><li>All</li></ul>			
O Act	ivity N	Ionth	
09	/2012	2	
© Mo	nthly	Details Version Nr is	Filter
		Apply Filter	
8	Alloc	ation Details	
• 😼	Alloc	ation Details Invoicing date 19/06/2012	
<b>■ ∛</b> ■	Alloc	ation Details Invoicing date 19/06/2012 Invoicing date 15/05/2012	
• 😼	Alloc	ation Details Invoicing date 19/06/2012 Invoicing date 15/05/2012 Invoicing date 23/03/2012	Munderstee Terrs
•	Alloc	ation Details Invoicing date 19/06/2012 Invoicing date 15/05/2012 Invoicing date 23/03/2012 Invoicing date 17/02/2012	Navigation Tree
	Alloc	ation Details Invoicing date 19/06/2012 Invoicing date 15/05/2012 Invoicing date 23/03/2012 Invoicing date 17/02/2012 Invoicing date 26/01/2012	Navigation Tree
•	Alloc	ation Details Invoicing date 19/06/2012 Invoicing date 15/05/2012 Invoicing date 23/03/2012 Invoicing date 17/02/2012 Invoicing date 26/01/2012 Invoicing date 16/12/2011	Navigation Tree
	Alloc	ation Details Invoicing date 19/06/2012 Invoicing date 15/05/2012 Invoicing date 23/03/2012 Invoicing date 17/02/2012 Invoicing date 26/01/2012 Invoicing date 16/12/2011 Invoicing date 23/11/2011	Navigation Tree
- <mark> </mark>	Alloc	ation Details Invoicing date 19/06/2012 Invoicing date 15/05/2012 Invoicing date 23/03/2012 Invoicing date 23/03/2012 Invoicing date 26/01/2012 Invoicing date 26/01/2011 Invoicing date 23/11/2011 Invoicing date 13/09/2011	Navigation Tree
	Alloc	ation Details Invoicing date 19/06/2012 Invoicing date 15/05/2012 Invoicing date 23/03/2012 Invoicing date 23/03/2012 Invoicing date 17/02/2012 Invoicing date 26/01/2012 Invoicing date 16/12/2011 Invoicing date 13/09/2011 Invoicing date 12/09/2011	Navigation Tree
	Alloc	ation Details Invoicing date 19/06/2012 Invoicing date 15/05/2012 Invoicing date 23/03/2012 Invoicing date 23/03/2012 Invoicing date 17/02/2012 Invoicing date 26/01/2012 Invoicing date 23/11/2011 Invoicing date 13/09/2011 Invoicing date 12/09/2011 Invoicing date 09/09/2011	Navigation Tree
		ation Details Invoicing date 19/06/2012 Invoicing date 15/05/2012 Invoicing date 23/03/2012 Invoicing date 23/03/2012 Invoicing date 17/02/2012 Invoicing date 26/01/2012 Invoicing date 16/12/2011 Invoicing date 13/09/2011 Invoicing date 13/09/2011 Invoicing date 09/09/2011 Invoicing date 08/09/2011	Navigation Tree
		ation Details Invoicing date 19/06/2012 Invoicing date 15/05/2012 Invoicing date 23/03/2012 Invoicing date 23/03/2012 Invoicing date 17/02/2012 Invoicing date 26/01/2012 Invoicing date 26/01/2011 Invoicing date 23/11/2011 Invoicing date 13/09/2011 Invoicing date 09/09/2011 Invoicing date 08/09/2011 Invoicing date 07/09/2011	Navigation Tree
		ation Details Invoicing date 19/06/2012 Invoicing date 15/05/2012 Invoicing date 23/03/2012 Invoicing date 23/03/2012 Invoicing date 17/02/2012 Invoicing date 26/01/2012 Invoicing date 23/11/2011 Invoicing date 13/09/2011 Invoicing date 12/09/2011 Invoicing date 09/09/2011 Invoicing date 07/09/2011 Invoicing date 07/09/2011	Navigation Tree

The user can modify the filter applied on the collection of available allocation details organized in the navigation tree. The allocation details are grouped per invoicing month and per monthly details version number.

The Navigation Tree, the Filter Panel and the different downloading options will be discussed in the following sections.

#### 5.7.1.1 Navigation Tree

M	lonth	ıly De	tails Version Selection	
	3	Alloca	ation Details	
	Đ		Invoicing date 19/06/2012	Level 1
			Monthly Details Version 2012050001	— Level 2
	±		Invoicing date 23/03/2012	
	Ŧ	a	Invoicing date 17/02/2012	
	Ŧ	6	Invoicing date 26/01/2012	
	Ð	â	Invoicing date 16/12/2011	
	±	6	Invoicing date 23/11/2011	
	Ŧ	a	Invoicing date 13/09/2011	
	±	0	Invoicing date 12/09/2011	
	±	â	Invoicing date 09/09/2011	
	Ð	6	Invoicing date 08/09/2011	
	±	6	Invoicing date 07/09/2011	
	Ŧ		Invoicing date 06/09/2011	
	Ŧ	a	Invoicing date 05/09/2011	

The navigation provides a tree structure of all invoicing dates (i.e. document date of the allocation details) of the last 3 years and the associated bundled/linked Monthly Details Version Numbers:

- Level 0: label 'Allocation Details'. This navigation tree is built for the quick navigation through the archived collection of allocation details of the last 3 years. The filter above provides additional browsing facilities and is applicable on the tree content.
- Level 1: Invoicing Dates (invoicing data available for the past 3 years). This level of the navigation tree contains the invoicing dates or document dates of the last 36 invoicing months.
- Level 2: Monthly Details Version Number In the second level, the user can find all the Monthly Details Version Numbers that are attached/bundled/linked to a particular invoicing date or document date. If a Monthly Details Version Number has been selected in the navigation tree, the user will have the possibility to download all the allocation details associated with that particular Monthly Details Version Number, and related to the invoicing date of the previous level. All the related allocation details for a particular Monthly Details Version Number and Invoicing Month/Document date will be shown in the Allocation Details Download Panel to the right of the Navigation Tree. These particular allocation details can be downloaded separately or all together in a zip file.

#### 5.7.1.2 Filter Panel

Filter Definition	
<ul> <li>All</li> <li>Activity Month</li> <li>09/2012 </li> <li>Monthly Details Version Nr is</li> </ul> Apply Filter	=> Only the Monthly Details Versions of Activity Month September 2012 are shown in the navigation tree, even though the invoicing dates contain other Monthly Details Versions

The Filter Panel gives the user the possibility to filter/limit the available Monthly Details Version Numbers in the navigation tree for easy and quick navigation. After applying a desired filter-option by selecting the preferred filter option and clicking the "Apply Filter" button, this option is highlighted. The filter panel consists of the following criteria/options.

• All

If this option is chosen, no filter is applied. The option "All" gives all the available Monthly Details Version Numbers grouped by the Invoicing Date (=document date) to which they are linked/bundled.

Activity Month

This filter criterion gives the user the option to restrict the available Monthly Details Version Numbers shown in the navigation tree to a pre-defined Activity Month in the combo-box.

• Monthly Details Version Number

This option offers the possibility to search and request a specific Monthly Details Version Number that fully matches the expression entered in the corresponding edit-box. As so, the user can limit the Monthly Details Version Numbers shown in the navigation tree to one particular version.

#### 5.7.1.3 Download

Essentially, there are two different ways in which the download features of the application can be used:

- Download the desired information through the Graphical User Interface.
- Address the download feature directly by using the Download URL.

#### 5.7.1.3.1 Manual download by the user

The user can download the allocation details of a selected invoicing date or linked to the selected Monthly Details Version Number by navigating to the desired invoicing month (level 1) and Monthly Details Version Number (level 2).

If a Monthly Details Version Number has been selected in the fourth level of the navigation tree, all the related allocation details for a particular Monthly Details Version Number and Invoicing Date/Document Date are shown in the Allocation Details Download Panel to the right of the Navigation Tree.

🗄 🗀 Invoicing date 30/06/2010	Download	Grid User's Definitive Hourly Allocation Form	Download a single allocation detail	12/02/2012
⊞ □ Invoicing date 31/05/2010	Download	Grid User's Definitive Hourly Allocation Form	Grid User's Definitive Hourly Allocation Form of	13/02/2012
Control Invoicing date 28/06/2012     Control Invoicing date 31/05/2012	Download	Grid User's Definitive Hourly Allocation Form	GasDay 13/02/2012, with Monthly Details Version	14/02/2012
Compare 27/04/2012     Compare 27/04/2012     Compare 21/03/2012	Download	Grid User's Definitive Hourly Allocation Form	-Number 2012020001 and linked to the invoicing date 31/03/2012	15/02/2012
Monthly Details Version 2012020001	Download	Grid User's Definitive Hourly Allocation Form	Download all allocation details related to a	16/02/2012
Monthly Details Version 2012010002	Download	Grid User's Definitive Hourly Allocation Form	particular Monthly Details Versoin	17/02/2012
Invoicing date 29/09/2010			All the allocation details with Monthly Details	
⊞ 🚞 Invoicing date 27/08/2010	Download	Grid User's Definitive Monthly Allocation Ferm	Version Number 2012020001 and linked to the	01/02/2012
Invoicing date 29/07/2010     Invoicing date 30/06/2010	Download	Grid User's Definitive BAD Hourly Allocation Form	invoicing date 31/03/2012	01/02/2012
Invoicing date 31/05/2010	Download	Grid User's Definitive BAP Daily Allocation Form	Download all allocation details related to the	01/02/2012
Direction of the second s	Download	Temperatures Daily Form	<ul> <li>selected invoicing date</li> <li>All the allocation details linked to the invoicing</li> </ul>	01/02/2012
#	Download this Monthly	Details Version Download entire Invoicing Date	date 31/03/2012 (versions 2012020001, 2012010002 and 2011120003)	

The user has the possibility to choose the granularity of the group of allocation details to download:

- A particular single allocation detail can be downloaded by clicking the download button in front of the associated allocation detail line. Subsequently, this allocation detail file is downloaded as a CSV file which can be opened with either Notepad or Excel, and/or can also be saved to a local drive.
- All the allocation details related to a particular Monthly Details Version Number can be downloaded by selecting the option "Download this Monthly Details Version" and clicking the "Start Download" button. This bundle of allocation details is downloaded as a ZIP file containing all the allocation details in CSV file format.
- The download of all the allocation details of all the allocation details versions related to the selected invoicing date of the previous level is executed by selecting the option "Download entire Invoicing Date", and clicking the "Start Download Button". This group of allocation details is downloaded as a ZIP file containing all the allocation details in CSV file format.

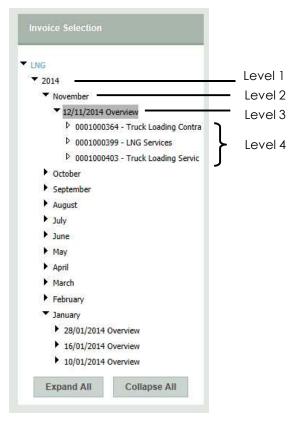
After the user has initiated a download, the File Download screen pops up giving him/her the choice to either directly open the file or save it.

#### 5.7.1.3.2 Automatic download by an application

See chapter 6.

5.7.2 Invoices 🔎

## 5.7.2.1 Navigation Tree



The navigation provides a tree structure of all invoicing dates from January 2014 and the associated bundled/linked Invoice Numbers:

• Level 0: label 'LNG'.

This navigation tree is built for the quick navigation through the archived collection of invoices from January 2014.

- Level 1: Invoicing year This level of the navigation tree contains the invoicing year.
- Level 2: Invoicing month This level of the navigation tree contains the invoicing month.
- Level 3: Invoicing Dates (invoicing data available from Januray 2014). This level of the navigation tree contains the invoicing dates. If a invoicing version number has been selected in the navigation tree, the user will have the possibility to download all the invoices associated
- Level 4: Invoicing Number In this level, the user can find all the invoicing version numbers that are attached/bundled/linked to a particular invoicing date.

#### 5.7.2.2 Download

A manual download for the desired information through the Graphical User Interface can be done.

#### 5.7.2.1.1 Manual download by the user

The user can download the document of a selected invoicing date or linked to the selected invoice number by navigating to the desired invoicing month (level 2).

Document nr	Description	Invoice	Invoice Appendix	Invoice Appendix Xml
0001000364	12/11/2014 - Truck Loading Contra	1	]	
0001000399	12/11/2014 - LNG Services	205		
0001000403	12/11/2014 - Truck Loading Servic	POF		

## 5.7.3 Other invoices – Fluxys LNG 🔳

This section of EDP gives access to private data concerning invoices and appendixes for non- regulated activities.

## 5.7.4 Invoices for truck companies 🔳

## 5.7.4.1 Navigation Tree

NG		
2014		Lev
November		– Lev
× 12/11/2014	Overview	Lev
▷ 0001000	364 - Truck Loading Contra	<u>ר</u>
▷ 00010000	399 - LNG Services	Lev
▷ 0001000	403 - Truck Loading Servic	J
October		
September		
August		
July		
June		
May		
April		
March		
February		
January		
28/01/2014		
16/01/2014	Overview	
▶ 10/01/2014		

The navigation provides a tree structure of all invoicing dates from January 2014 and the associated bundled/linked Invoice Numbers:

- Level 0: label 'LNG'. This navigation tree is built for the quick navigation through the archived collection of invoices from January 2014.
- Level 1: Invoicing year This level of the navigation tree contains the invoicing year.
- Level 2: Invoicing month

This level of the navigation tree contains the invoicing month.

- Level 3: Invoicing Dates (invoicing data available from January 2014). • This level of the navigation tree contains the invoicing dates. If an invoicing version number has been selected in the navigation tree, the user will have the possibility to download all the invoices associated
- Level 4: Invoicing Number • In this level, the user can find all the invoicing version numbers that are attached/bundled/linked to a particular invoicing date.

#### 5.7.4.2 Download

A manual download for the desired information through the Graphical User Interface can be done.

#### 5.7.4.2.1 Manual download by the user

The user can download the document of a selected invoicing date or linked to the selected invoice number by navigating to the desired invoicing month (level 2).

Document nr	Description	Invoice	Invoice Appendix	Invoice Appendix Xml
0001000364	12/11/2014 - Truck Loading Contra	2		
0001000399	12/11/2014 - LNG Services	1905		
0001000403	12/11/2014 - Truck Loading Servic	Der -		

## 5.7.5 Gas In Storage Account for LNG Terminal 🔳

This report contains the monthly detail of the individual total inventory position (GIS account level) at the Zeebrugge LNG Terminal during the month.

The Gas In Storage account is published every month on Electronic Data Platform.

GIS Account for	XXXXXX	
Unloading Month	October 2020	kWh
1. Quantities IN		
LNG Ship Unloadir	ng	
ship 1	χοσοκίνοκίχος	1 110 667 000
ship 2	χασατ'υστ'χου	186 463 000
Allocated Quantitie	0	
Allocated Fuelgas	IN	0
Distribution of Mor	nthly Energy Balance :	
X00X-X000X		- 1 816 260
X00X-X00X		- 2 584 744
Distribution of Diff	ference Deemed vs Allocated Fuel Gas :	
XXXX-XXXX		0
Total Quantities I	IN	1 292 728 995
2. Quantities OUT		
24		
LNG Ship Loading		1 000 145 000
LNG Ship Loading ship 3	300/300/300	
LNG Ship Loading ship 3 ship 4	τακ/τακ/τακ	1 065 918 000
LNG Ship Loading ship 3 ship 4 Allocated Quantitie	ιακ/ιακ/ιασακ ιακ/ιακίασοκ 25 ΟUT	1 082 315 000 1 065 918 000 71 415 000
LNG Ship Loading ship 3 ship 4 Allocated Quantitie Allocated Send-1	χατ/χαι/χασακ χατ/χαι/χασακ ≥s OUT Out 0	1 065 918 000
LNG Ship Loading ship 3 ship 4 Allocated Quantitie Allocated Send-( Allocated TBOG	χοι/χοι/χοροκ χοι/χοι/χοροκ ≥≤ OUT Out 0 999 999 999	1 065 918 000 71 415 000
LNG Ship Loading ship 3 ship 4 Allocated Quantitie Allocated Send-1	χοι/χοι/χοροκ χοι/χοι/χοροκ ≥≤ OUT Out 0 999 999 999	1 065 918 000
LNG Ship Loading ship 3 ship 4 Allocated Quantitie Allocated Send-( Allocated TBOG	xx/xx/xxxx xx/xx/xxxx es OUT Out 0 999 999 999 OUT	1 065 918 000 71 415 000 0
LNG Ship Loading ship 3 ship 4 Allocated Quantitie Allocated Send- Allocated TBOG Allocated Fuelgas	xx/xx/xxxx xx/xx/xxxx es OUT Out 0 999 999 999 OUT	1 065 918 000 71 415 000 0
LNG Ship Loading ship 3 ship 4 Allocated Quantitie Allocated Send- Allocated TBOG Allocated Fuelgas Total Quantities (	xx/xx/xxxxx xx/xx/xxxxx es OUT Out 0 999 999 999 OUT DUT	1 065 918 000 71 415 000
LNG Ship Loading ship 3 ship 4 Allocated Quantitie Allocated Send- Allocated TBOG Allocated Tuelgas Total Quantities ( 3. Balance	xx/xx/xxxxx xx/xx/xxxxx es OUT Out 0 999 999 999 OUT DUT	1 065 918 000 71 415 000 0 2 219 648 000
LNG Ship Loading ship 3 ship 4 Allocated Quantitie Allocated Send- Allocated TBOG Allocated TBOG Allocated Fuelgas Total Quantities ( 3. Balance GIS at 29/09/2020	xx/xx/xxxxx xx/xx/xxxxx es OUT Out 0 999 999 999 OUT OUT	1 065 918 000 71 415 000 2 219 648 000 992 165 274
LNG Ship Loading ship 3 ship 4 Allocated Quantitie Allocated Send-I Allocated TBOG Allocated Fuelgas Total Quantities ( <u>3. Balance</u> GIS at 29/09/2020 + Quantities IN	xxx/xxx/xxxxx xxx/xxx/xxxxx 0ut 0 0ut 0 999 999 999 OUT 0UT 00UT	1 065 918 000 71 415 000 0 2 219 648 000 992 165 274 1 292 728 995

#### LNG-TERMINAL ZEEBRUGGE fluxys

## 5.7.6 Synchronization GIS-level LNG Terminal 🔳

The synchronization between the steering and validation level of the Gas In Storage account at the Zeebrugge LNG Terminal. The scheduling date for this synchronization is communicated by Fluxys with the publication on Electronic Data Platform.

Synchronisation Steering level at Ter	minal Zeeprugge - XXXXX						6
							fluxys <sup>ć</sup>
These figures are based on the levels a	at 01/11/2020 06:00						
Steering level is the level based on pro	ovisional figures - this is the	level as it is fo	orwarded each	hour by Fluxys	by use of an elect	ronic message)	
Your steering GIS account	65.246.269	kWh					
Your validated GIS account	65.246.269	kWh					
Delta	0	kWh					
This quantity will be synchronized on		xx/xx/xxxx	at gashour	06:00-07:00	GH1		

## 5.7.7 Transfers Monthly Energy Balance & Monthly Fuelgas Balance for LNG Terminal

Distribution of the Monthly Fuelgas Balance and the Monthly Energy Balance at the Zeebrugge LNG Terminal.

This operation is done the following month. The scheduling date for this transfer is communicated by Fluxys with the publication on Electronic Data Platform.

Monthly Energy & Fuelgas Balar							~
The following quantities will be t	ransfered to ye	our Gas in Storag	e account :			fluxy	1st
Monthly Energy Balance	0	kWh					
Monthly Fuelgas Balance	0	kWh					
This quantity will be transfered o	on	xx/xx/xxxx	at gashour	06:00-07:00	(GH1)		

## 5.7.8 Evolution of the Gas in Storage Account for LNG Terminal

Evolution of your GIS account in energy with hourly granularity, contains data from the past and already known data for the future.

uxys <sup>®</sup>						Wetcerv	
Transmission &	ZTP Trading Services Sten	age L	NG terminaling Admin	istration			
Load Data	14 4 1 44	27 P PI	а.				
	Activities GIS Act						
Period From	Activities GIS Act	cunt overview	v				
01/03/2021	Terminal User:		· · · · · · · · · · · · · · · · · · ·				
Period To:	Allocation Type:	Steering					
16/03/2021	Unit	kWh (25°C)					
	Gas Day	Gas Hour	GIS Start Level (kWh)	Send Out Allocations	TBOG Allocations	Reverse Allocations	Virtual Liquefaction Allocations
	1/03/2021		- 17 662 420				
Allocation Type:	1/03/2021	2	- 17 662 420				
<ul> <li>Steering</li> <li>Validated</li> </ul>	1/03/2021		- 17 662 420				
O validated	1/03/2021		- 17 662 420				
	1/03/2021		- 17 662 420				
	1/03/2021		- 17 662 420				
	1/03/2021		- 17 662 420				
	1/03/2021		- 17 662 420				
	1/03/2021		- 17 662 420				
	1/03/2021		- 17 662 420				
	1/03/2021		- 17 662 420 - 17 662 420				
	1/03/2021		- 17 662 420 - 17 662 420				
						-	
	1/03/2021		- 17 662 420				
	1/03/2021		- 17 662 420 - 17 662 420	-			
	1/03/2021		- 17 662 420				

#### 5.7.8.1 Download

A manual download for the desired information can be done only in .xls format via export drop down menu.

## 5.7.9 Ship Loading & Unloading reports

These reports contain the details for each ship loading at the Zeebrugge LNG Terminal (Certificate of quality and quantity).

fluxys	Transmission & ZTP Trading Services	Storage LNG terminalling Administration	
			Search
	File Name	Date	Size (KB)
	- 20221203 1930 pdf	28/02/2023 15:23:49	259
	- 20221211 2243.pdf	28/02/2023 15:23:31	320
	- 20230220 2024,pdf	23/02/2023 09:00:17	185
	of 3 entries		First Previous 1 Next Las

# 5.8 Regulatory and contractual documents

## 5.8.1 Terminalling model

Link to contractual documents and tariffs for all LNG services in Zeebrugge.

## 5.8.2 Terminalling services offer

Program for LNG Terminalling: overview of services offered at the LNG terminal in Zeebrugge.

## 5.8.3 Tariffs

Link to tariffs for all LNG services in Zeebrugge.

## 5.8.4 Specific requirements at the LNG Terminal Delivery point

List of LNG quality requirements for delivery in Zeebrugge.

## 5.8.5 Specific requirement at the LNG Terminal Redelivery point

List of natural gas quality requirements of regasified LNG.

## 5.9 Truck planning for shippers

## 5.9.1 LNG truck quality and quantity document 🔳

When the LNG Truck has been loaded, the Terminal User can download a PDF document to see how much LNG was loaded of which quality.

## 5.9.2 LNG truck loadings 亘

When LNG Trucks have been loaded, the Terminal User can download an Excel document to see how much LNG was loaded of which quality.

## 5.9.3 Truck Manager 💷

New tool to schedule appointments to load an LNG Truck in Zeebrugge.

## 5.10 Truck planning for trucking companies

## 5.10.1 Contract overview 🔳

The trucking company can see how many LNG Truck Loading Services have been subscribed for which period.

## 5.10.2 LNG truck quantity and quantity document 🔳

When the LNG Truck has been loaded, the trucking company can download a PDF document to see how much LNG was loaded of which quality.

## 5.10.3 LNG Truck loading 🔳

When LNG Trucks have been loaded, the Trucking Company can download an Excel document to see how much LNG was loaded of which quality.

## 5.10.4 Truck Manager 💷

New tool to schedule appointments to load an LNG Truck in Zeebrugge.

## 5.11 **REMIT** messages

<u>**R**</u>egulation on <u>**E**</u>nergy <u>**M**</u>ark<u>e</u>t Integrity and <u>**I**</u>ransparency</u>

<u>Purpose</u>: Publishing information to foster open and fair competition through reporting that may impact price and applies to market participants (including TSO's or Grid-Users who enters into transactions in wholesale energy markets).

## 5.12 Notifications 💷

General commercial informations.

# 6 Automatic downloads

For most of the reports in the Electronic Data Platform and Electronic Booking System, it is possible to let a system perform automatic downloads through an URL with parameters.

## 6.6 Authentication Parameters

## 6.6.1 Credentials in URL

While a user will be presented with a login dialog when accessing a private section of the Electronic Data Platform, applications need to pass their credentials as parameters in the URL. This can be done by specifying username and password as the first two parameters in the URL.

## 6.6.2 Api Gateway (new securised approach)

Downloading some reports requires this new method to authenticate.

See procedure in Technical Requirement in Operational Information (mentioned below) : The Implementation Information provides a full overview of the reports under consideration, the URLs, the parameters, and the format of the output files. The Implementation Information and all the relevant files can be retrieved at

#### Transmission :

https://www.fluxys.com/en/products-services/empoweringyou/operational- information/operational-information-transmissionbelgium

 Downloads : <u>https://www.fluxys.com/-</u> /media/project/fluxys/public/corporate/fluxyscom/documents/fluxysbelgium/commercial/operational-information/automatic-downloads/20221214---transmission\_automatic-downloads.zip

#### <u>Storage :</u>

https://www.fluxys.com/en/products-services/empoweringyou/operational-information/operational-information-storagebelgium  Downloads : <u>https://www.fluxys.com/-</u> /media/project/fluxys/public/corporate/fluxyscom/documents/fluxysbelgium/commercial/operational-information/automatic-downloads/20221214--storage\_automatic\_downloads.zip

#### LNG Terminalling :

https://www.fluxys.com/en/products-services/empoweringyou/operational-information/operational-information-fluxys-Ing Downloads : https://www.fluxys.com/-

/media/project/fluxys/public/corporate/fluxyscom/documents/fluxysbelgium/commercial/operational-information/automatic-downloads/20221214---terminalling\_automatic\_downloads.zip