

Gas Storage CZ

Web Portal

User guide for subjects of settlement

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Used terms and acronyms

Gas day ("GD")	Period of time from 06:00:00 o'clock of a calendar day to 06:00:00 o'clock of the next calendar day (using valid time for the Czech Republic).
Underground gas storage ("UGS")	Facility into/from which is gas injected/withdrawn by transmission system operator and where gas is stored. Gas Storage CZ owns and operates following six gas storage facilities: <ul style="list-style-type: none"> • Háje, • Dolní Dunajovice, • Tvrdonice, • Lobodice, • Štramberk, • Třanovice.
Virtual gas storage ("VGS")	Virtual gas storage consists of six underground gas storages located in Czech Republic and is managed as one big virtual storage.
kWh	Energy unit. Storage capacity is offered in kWh.
Firm capacity	Storage capacity available to the depositor for the entire duration of the contract.
Daily Firm capacity ("DFC")	A product that allows to additionally increase the Firm capacity (injection/withdrawal) for specific gas day. To make use of this product a framework agreement between Gas Storage CZ and customer is required. As soon as framework is signed - customer may purchase daily firm capacity on the web portal. Unit price of DFC is specified by Gas Storage CZ. DFC is always allocated as first come before other kind of capacities.
Intraday Firm capacity ("IDFC")	Similar to Daily Firm capacity but in this case additional capacities can be purchased in intraday mode. To make use of this product a framework agreement is required.
Interruptible capacity ("IC")	A product that allows to additionally increase the injection and withdrawal capacity. These additional capacities are not guaranteed and can be interrupted at any time - in case there is not enough firm capacity and daily firm capacity to satisfy all customers with firm and daily firm capacities. To make use of this product a framework agreement between Gas Storage CZ and customer is required. Unit price of interruptible capacity is offered by customers. Capacities of customer who offered higher price than others are satisfied first.
Intraday interruptible capacity ("IIC")	Similar to interruptible capacity but in this case additional capacities can be purchased in intraday mode. To make use of this product a framework agreement is required.
Nomination	A requirement specified by the customer to

	inject/withdraw gas into/from virtual gas storage.
Injection	The process that transports gas into the storage (from the transmission system).
Withdrawal	The process that transports gas from the storage (to the transmission system).
Fixed terms and conditions	Capacities that were purchased under the contract.
Terms and conditions	Current levels of capacity after adding all of additional products, current usage, transferred capacities and working gas volume.
Working gas volume (WGV)	Volume of purchased capacity in gas storage. Usually for period of one year or more.
Temporary working gas volume (TWGV)	Additional working gas volume purchased for several days, weeks, months.
Matching	Agreeing of nominated value with transmission system operator.
Allocation	Amount of gas (on a daily basis) which was injected/withdrawn into/from virtual gas storage. Injection is a positive number. Withdrawal is a negative number.
Market operator - OTE	OTE, a.s., is the Czech electricity and gas market operator.
TSO	Gas transmission system operator. (Net4Gas, s.r.o.)
Time series, time lines	Vector of values in specific sample (hourly sample, daily sample, ...).
Report	Spreadsheet document in XLSX format (Microsoft Excel), with predefined structure of columns.
Simple nomination form	A web page where user can enter and submit nominations to all valid contracts on a specific gas day.
Mass nomination form	A web page where user can enter and submit nominations to all valid contracts on following 30 gas days.

1 Introduction

Every customer of Gas Storage CZ is able to access web portal of Gas Storage Nomination System and use its features to reach expected business goals.

GSN web portal will allow customers to:

- **Submit nominations** for several contracts at once using.
- **Purchasing additional services** (daily Firm capacity, temporary storage volume etc.).
- **Requesting of additional capacity** (interruptible and intraday interruptible capacity).

- **Transferring capacity or gas** to another contract or to other companies (injection, withdrawal, storage capacities and gas).
- **Displaying the history of the specified requirements for injection / withdrawal** in the context of the Virtual UGS.
- **Displaying history of past matchings** to the desired nominations and their results.
- **Receiving tabular documents** according to custom settings and rules, providing an update on the use of purchased services.
- **Displaying of contractual information.**
- **Ability to predict values** according to selected parameters.

This user manual describes web portal and most of its features.

2 Web portal -essentials

2.1 Contact information

In case of requesting any new access or changing the existing one, please contact the Sales department using mail address:

gs.sales@rwe.com or using phone number: +420 775 884 444.

2.2 Login to the system

Customer/user is able to Login to the GSN web portal via a web browser by entering <https://gsn.rwe-gasstorage.cz/>.

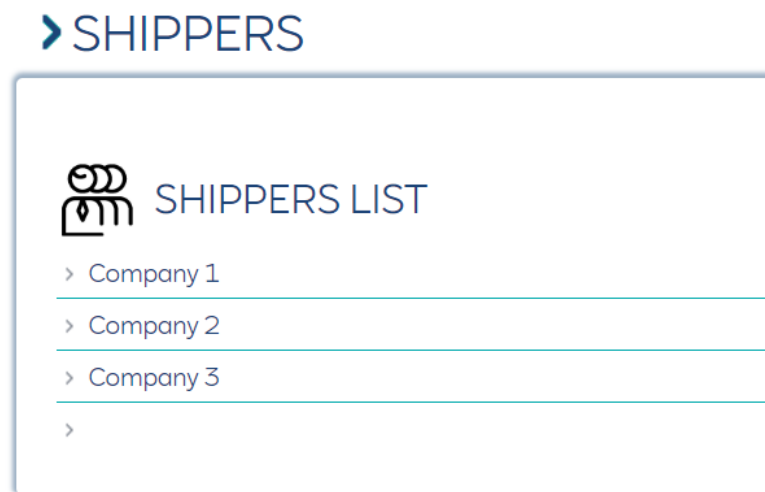
Here the customer is able to enter username and password and successfully login to the system.

Supported browsers are Mozilla Firefox, Internet Explorer version 10 and 11, Google Chrome and Microsoft Edge.

Gas Storage CZ

2.3 Subjects of Settlement home page

As soon as user is successfully logged in - the home page is displayed. In case that special privileges were granted to the user and the user can manage more customers (companies/business entities) at once - the list of companies is displayed.



Subjects of Settlement selection screen

After selecting of a specific company by clicking, web portal redirects the user to the web page where the company and all of its contracts can be managed. To get back to the home page please click on the “**Home**” icon, located in the top navigation menu.

In case that user has successfully selected one company (of the list of companies) or in case that it is able to manage only one company - the following web page is displayed:



Gas Storage CZ

Home Change password Help

Top menu

Logged: user1@company1.com Logout English 8/7/2020

User options

NOMINATIONS AND ALLOCATIONS | ACTIVE CONTRACTS | ARCHIVED CONTRACTS | USER REPORTS | INVOICING | TRANSFER/LEASE CAPACITY/GAS

> Company 1

COMPANY 1

Main menu

INFORMATION

Shipper: Company 1
EIC code: XXX-COMPANY1
Framework: DPK, PK, TWGV
Active contracts: 1
Archived contracts: 0
Authorized users (2):
 > User1(user1@comp1.com)
 > User2(user2@comp1.com)

NOMINATIONS AND ALLOCATIONS

 > Submit new nomination
 > Submit new mass nomination
 > Nomination messages history
 > Matching messages history

TRANSFER/LEASE

 > Transfer/lease capacity/gas
 > Receive capacity/gas

ACTIVE CONTRACTS

 > GSTCOMA(1/4/2019 - 3/31/2021)

USER REPORTS

 > User Reports

INVOICING

 > List of published invoices

Content area - section displaying content of specific areas of the system

Web portal screen – subject of settlement

Screen above consists of following parts:

1) Static part

- **Top menu**
 - **Home** - redirects to the home page (more described in the second part of this chapter).
 - **Change password** - redirects to a page where user can change password (more in chapter 2.4).
 - **Help** - redirects to a page where user can download web portal documentation (more in chapter 2.5).
- **User options**
 - **Logged user** - e-mail address of the user who is currently logged-in.
 - **Logout** - log the user out of the system.
 - **Language** - allows the user to select language of the web portal (more in chapter 2.7).
- **Main menu**
 - **Nominations and allocations** - opens a web page with following options:
 - **New nomination** - more in chapter 3.1.
 - **Nominations overview** - more in chapter 3.2.
 - **New mass nomination** - more in chapter 3.3.
 - **Matching overview** - more in chapter 3.4.
- **Content Area**
 - In this section, content of specific web area is displayed, based on where the user currently is in the system.

► NOMINATIONS AND ALLOCATIONS

NEW NOMINATION	NEW MASS NOMINATION
NOMINATION OVERVIEW	MATCHING OVERVIEW

Quick select of basic options















- **Active contracts** - redirects the user to a webpage with the list of active contracts (more in chapter 3.5).
- **Archived contracts** - redirects the user to a web page with the list of inactive contracts (more in chapter 3.5).
- **User reports** - redirects the user to a web page where customized reports can be created and managed (more in chapter 3.9).

2) Part only displayed on subject of settlement screen

- **Information**
 - **Shipper** – name of the subject from CRM, that is assigned to the subject of settlement
 - **EIC code** – value of EIC code of the subject of settlement
 - **Framework** – list of frameworks, currently set up on the subject of settlement (values TWGV, DPK, PK)
 - **Active contracts** – number of currently valid contracts of the subject of settlement
 - **Archived contracts** – number of inactive contracts of the subject of settlement
 - **Authorised users (number)** – list of users authorised to manage the contracts on the subject of settlement
- **Nomination and Allocation**
 - **Submit new nomination** - opens a web form designed to submit nomination on a specific gas day (more in chapter 3.1).
 - **Submit new mass nomination** - opens a web form designed to submit nominations for up to 31 gas days at once (more in chapter 3.2).
 - **Nomination messages history** - displays an overview of all submitted/received nominations (more in chapter 3.3).
 - **Matching messages history** - displays an overview of all received matchings (more in chapter 3.4).
- **Transfers/Lease**
 - **Transfer/lease capacity/gas** - allows the user to create gas/capacity transfer or to lease capacity (more in chapter 3.7).
 - **Receive gas capacity** - allows the user to receive gas/capacity transfer or capacity lease (more in chapter 3.8).
- **Active contracts**
 - List of active contracts (more in chapter 3.5).

- **Archived contracts**
 - List of inactive contracts (more in chapter 3.5).
- **User reports**
 - User reports - feature of the web portal which enables users to manage user reports, create new custom user reports (xlsx reports) based on data stored in time series (more in chapter 3.9).
- **Invoicing**
 - List of published invoices – by clicking on the link, user is redirected to the section with overview of issued invoices

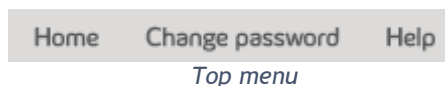
› INVOICING

PUBLISHED INVOICES				
Exported at	Type	Invoice number	Subject	
5/15/2019 6:05:11 AM	Pevná kapacita	20190959	Fakturace za skladovací kapacitu 06/2019	
4/15/2019 6:05:12 AM	Pevná kapacita	20190937	Fakturace za skladovací kapacitu 05/2019	
4/1/2019 6:05:08 AM	Ostatní služby	20190921	Fakturace za doplňkové služby 03/2019	
3/15/2019 6:05:17 AM	Pevná kapacita	20190914	Fakturace za skladovací kapacitu 04/2019	
2/15/2019 6:05:08 AM	Pevná kapacita	20190892	Fakturace za skladovací kapacitu 03/2019	
1/15/2019 6:05:08 AM	Pevná kapacita	20190870	Fakturace za skladovací kapacitu 02/2019	
12/15/2018 6:05:08 AM	Pevná kapacita	20180846	Fakturace za skladovací kapacitu 01/2019	
11/15/2018 6:05:08 AM	Pevná kapacita	20180825	Fakturace za skladovací kapacitu 12/2018	
10/15/2018 6:05:19 AM	Pevná kapacita	20180806	Fakturace za skladovací kapacitu 11/2018	
9/15/2018 6:05:09 AM	Pevná kapacita	20180787	Fakturace za skladovací kapacitu 10/2018	
<div>   1 2   </div>				1 - 10 of 20 items

- All issued invoices, that were generated (even retroactively) and stored in the system, are being listed in this section. Invoice status must be registered in the system as „Sent“, for the invoice to be displayed in this list. Any other status on the invoice will result in the invoice not being included in this overview.

2.4 Changing password

Users can change their password by clicking on the button “Change password”.



› CHANGE PASSWORD FORM

CHANGE PASSWORD FORM

Logged **user@user.com**.

Current / old password

New password

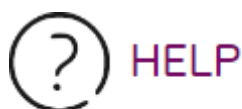
Confirm new password

[Change password](#)

Form for changing the password

2.5 Help

User is able to download full documentation of web portal in English or Czech language. Help button opens a web page containing both documents.



› [User guide for subjects of settlement \[EN\] \[PDF\]](#)

Help menu

2.6 Logout

For logging out, there is “Logout” button. Web portal will display an info screen after successful logout.

Logged: **name.surname@company.cz** [Logout](#) [English](#)
User options

2.7 Switching the language

Web portal is multilingual. By default, the language option is set by your computer environment. User is able to change it at any time by clicking on the name of the language located in top menu.



Language selection menu

3 Web portal - key business scenarios

3.1 Submit nomination for a single gas day

“New Nomination” web page (described on the image below) allows user to submit new request/s for transmission of gas between TSO and virtual gas storage. The nomination form contains a list of contracts. Each contract is displayed in a panel separated into two parts.

- Nominations - where nominated values of firm and interruptible capacities can be entered is located on the left side of the panel (green background).
- Purchase of an additional capacity - where more capacity such as daily firm capacity, intraday firm capacity, interruptible capacity and intraday interruptible capacity can be purchased is located on the right side of the panel (orange background).

> NEW NOMINATION

[Hide firm contracts](#)
[Hide interruptible contracts](#)
[Go to mass nomination form](#)

8/7/2020

[Submit nomination](#)

GSTCOMA

Buy TWGV

Nomination summary: 1,500,000 kWh (injection), Contract balance account: 75.25%

Nomination		Purchase of additional capacity			
<div>➔</div> Firm capacity <input type="text" value="1,000,000"/> kWh ⓘ		Intraday daily firm injection capacity <input type="text" value="0"/> ⓘ for price 0.021 CZK/kWh/d Purchase			
		Intraday daily firm withdrawal capacity <input type="text" value="0"/> ⓘ for price 0.010 CZK/kWh/d Purchase			
<div>⋈</div> Interruptible part <input type="text" value="0"/> kWh		Requested interruptible capacity <input type="text" value="0"/> kWh for price <input type="text" value="0.005"/> CZK/kWh/d ⓘ Submit			
<div>⋈</div> Intraday interruptible capacity <input type="text" value="0"/> kWh		Requested Intraday interruptible capacity <input type="text" value="0"/> kWh for price <input type="text" value="0.007"/> CZK/kWh/d ⓘ Submit			

[Show chart](#)

[Submit nomination](#)

Simple nomination form

Nomination summary - last nominated value. If last values were negative, there will be added red text “withdrawal” but if case that were positive there will be blue text “injection”.

Contract balance account - actual fulfillment of contract balance account (CBA) in percent.

- 1) **Nominate firm capacity (green part)** - user may nominate firm capacities by entering a value into the text box labelled as “Firm contract”. Positive number indicates injection into the virtual gas storage. Negative number indicates withdrawal from the virtual gas storage. Information about maximal allowed injection/withdrawal based on a level of contract balance account (amount of gas in storage) and injection/withdrawal curve is displayed when a cursor of mouse is moved on the “Info” icon on the right side of the textbox.
- 2) **Daily/intraday firm capacity (orange part)** - user may purchase daily/intraday firm capacity (on selected gas day) by specifying requested amount of gas into proper text boxes and clicking on purchase button. Maximal available daily firm injection or daily/intraday firm withdrawal capacity is displayed when a cursor of mouse is moved on the “Info” icon on the right side of textboxes.

GSTCOMA

Buy TWGV

Nomination summary: 1,500,000 kWh (injection), Contract balance account: 75.25%

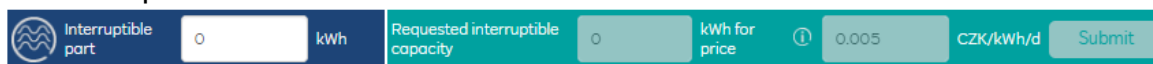
Nomination		Purchase of additional capacity			
<div>➔</div> Firm capacity <input type="text" value="1,000,000"/> kWh ⓘ		Intraday daily firm injection capacity <input type="text" value="0"/> ⓘ for price 0.021 CZK/kWh/d Purchase			
		Intraday daily firm withdrawal capacity <input type="text" value="0"/> ⓘ for price 0.010 CZK/kWh/d Purchase			

Simple nomination form - daily firm capacity

- 3) **Nominate interruptible capacity (green part)** - user may nominate interruptible capacities by entering a value into the text box labelled as “Interruptible part”. Positive number indicates injection into the virtual gas storage. Negative number indicates withdrawal from the virtual gas storage. This part is displayed only in case that customer has signed interruptible capacity framework. For more information about interruptible capacity frameworks please contact Sales Department or Commercial Dispatching.
- 4) **Request interruptible capacity (orange part)** - user may request interruptible capacity (on selected gas day) by specifying requested interruptible capacity and unit price for kWh/d. Positive number (placed into “requested interruptible capacity” textbox) indicates injection into the virtual gas storage. Negative number (placed into “requested interruptible capacity” textbox) indicates withdrawal from the virtual gas storage. In case an interruptible capacity request had already been submitted for selected day, information about requested amount and offered unit price is displayed. If there is no request yet submitted, the unit price field displays the smaller of the following values: current minimal unit price of interruptible withdrawal capacity/ current minimal unit price of interruptible injection capacity.

Information about minimal and maximal unit price of interruptible capacity is displayed when hovered over “Info” icon on the right side of the unit price text box. Following information is provided:

- Minimal unit price displayed - represents an amount that needs to be submitted for the request to be (at least partially) satisfied.
- Maximal price displayed - stands for a maximal unit priced currently offered for interruptible capacity.
- Preapproved volume – currently approved volume of a submitted request.



Simple nomination form - interruptible capacity

- 5) **Nominate intraday interruptible capacity (green part)** - user may nominate intraday interruptible capacities by entering a value into the text box labelled as “Intraday interruptible part”. Positive number indicates injection into the virtual gas storage. Negative number indicates withdrawal from the virtual gas storage. This part is displayed only in case that customer has signed interruptible capacity framework. For more information about interruptible capacity frameworks please contact Sales Department or Commercial Dispatching.
- 6) **Request intraday interruptible capacity (orange part)** - user may request intraday interruptible capacity (on selected gas day) by specifying requested interruptible capacity and unit price for kWh/d. Positive number (placed into “requested intraday interruptible capacity” textbox) indicates injection into the virtual gas storage. Negative number (placed into “requested intraday interruptible capacity” textbox) indicates withdrawal from the virtual gas

storage. In case an intraday interruptible capacity request had already been submitted for selected day, information about requested amount and offered unit price is displayed. If there is no request yet submitted, the unit price filed displays the smaller of the following values: current minimal unit price of intraday interruptible withdrawal capacity/ current minimal unit price of intraday interruptible injection capacity.

Information about minimal and maximal unit price of intraday interruptible capacity is displayed when hovered over “Info” icon on the right side of the unit price text box. Following information is provided:

- Minimal unit price displayed - represents an amount that needs to be submitted for the intraday request to be (at least partially) satisfied.
- Maximal price displayed - stands for a maximal unit priced currently offered for intraday interruptible capacity.
- Preapproved volume – currently approved volume of a submitted intraday request.

 Intraday interruptible capacity	<input type="text" value="0"/> kWh	Requested Intraday interruptible capacity	<input type="text" value="0"/> kWh for price	 0.007	CZK/kWh/d	Submit
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Simple nomination form - intraday interruptible capacity

- 7) **Purchasing temporary working gas volume** - user may purchase working gas volume by clicking on the button “Buy TWGV”. Purchasing of temporary working gas volume is possible only in case that customer has signed temporary working gas volume framework. For more information about temporary working gas frameworks please contact Sales Department or Commercial Dispatching.

BUY TWGV

×

PLEASE FILL IN AMOUNT OF REQUESTED TEMPORARY WGV

Price for current gas day is 0.001000 CZK/kWh/d

Date from

1/5/2017

📅

Date to

1/12/2017

📅

Amount

50,000

kWh/d

TWGV unit price

Buy

Cancel

1 - Temporary working gas volume wizard

- Price per kWh for current gas day in CZK.
- **Date from** - start date when contracted working gas volume will be increased. Must be at least three work days in advance.
- **Date to** - end date when contracted working gas volume will be decreased to its original state. Must be at least 7 days after "Date from".
- **Amount** - amount of working gas volume which will be added to contracted working gas volume.
- **TWGV unit price** - link to quick table, which contains detailed information about TWGV.

> TEMPORARY WGV

Display chart

From 1/1/2017 6:00 AM To 1/2/2018 12:00 AM Rows Days

Aggregation of row values Average Export

Date and time	Requested TWGV [kWh/d]	Requested TWGV [Nm3/d]	TWGV Unit Price [CZK/kWh/d]	TWGV Unit Price [CZK/Nm3/d]
1/4/2017	199,998.000	18,247.993	0.001	0.003
1/5/2017	199,998.000	18,247.993	0.001	0.003
1/6/2017	199,998.000	18,247.993	0.001	0.003
1/7/2017	199,998.000	18,247.993	0.001	0.003
1/8/2017	199,998.000	18,247.993	0.001	0.003
1/9/2017	199,998.000	18,247.993	0.001	0.003
1/10/2017	199,998.000	18,247.993	0.001	0.003
1/11/2017	199,998.000	18,247.993	0.001	0.003
1/12/2017	199,998.000	18,247.993	0.001	0.003
1/13/2017	199,998.000	18,247.993	0.001	0.003
1/14/2017	199,998.000	18,247.993	0.001	0.003
1/15/2017	199,998.000	18,247.993	0.001	0.003
1/16/2017	199,998.000	18,247.993	0.001	0.003
1/17/2017	199,998.000	18,247.993	0.001	0.003

Quick table containing requested TWGV and price per unit

Quick table displays amount of requested TWGV in kWh, requested by user and TWGV unit price.

Nomination form contains also following buttons:

- **Hide firm contracts** - hides firm parts of all contracts displayed on the webpage.
- **Hide interruptible contracts** - hides interruptible parts of all contracts displayed on the web page. This button is available only in case that customer has signed interruptible capacity framework.
- **Go to mass nomination form** - switch page to mass nomination for more gas days.
- **Show Curve** - displays a graph showing the maximum nominations for the following days under the given contract. The prediction counts with the maximum possible nomination each day, shifting on the withdrawal/injection curve and restrictions on the operator's side.

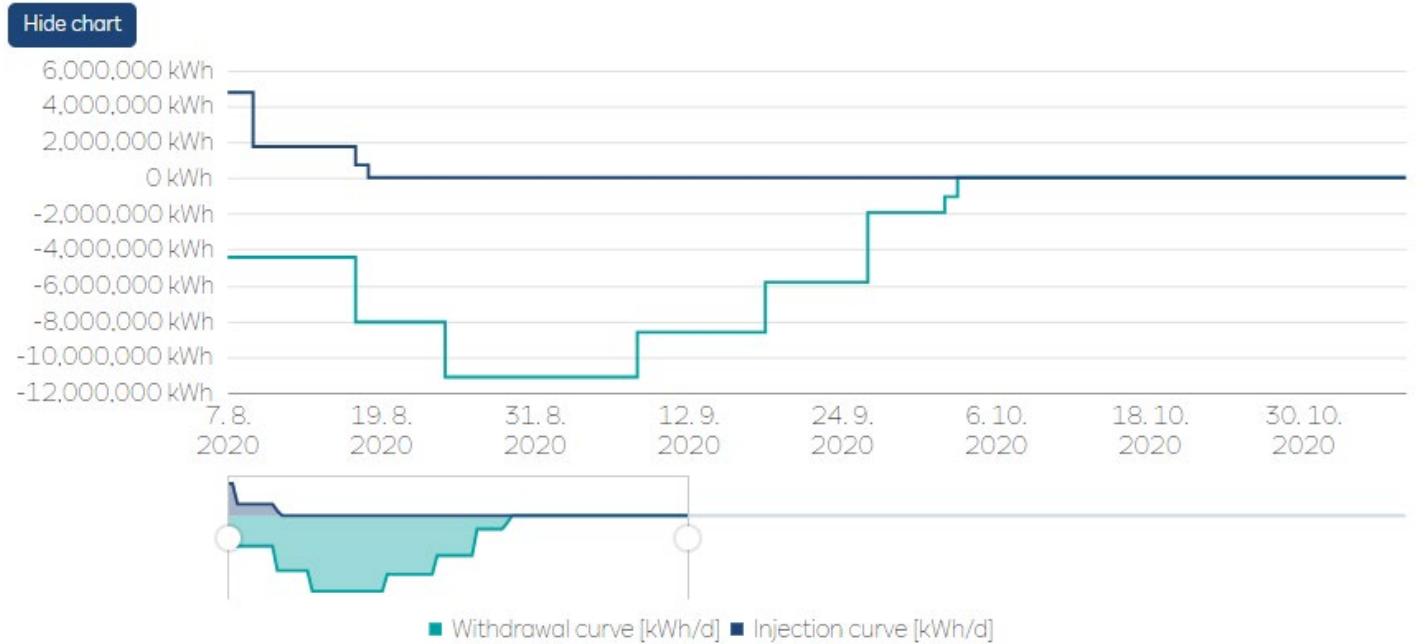
Hide firm contracts

Hide interruptible contracts

Go to mass nomination form

Buttons for hide firm/interruptible parts

Gas Storage CZ



Maximal nominations chart

Nomination (nominated values of **all contracts**) on selected gas day is submitted as soon as user clicks on a green “Submit nomination” button.

Submit nomination

Submit nomination

3.2 Nomination for multiple gas days

User can use an Excel like table to prepare and submit nominations on next 30 gas days in one step.

➤ NEW MASS NOMINATION

[Go to simple nomination form](#)
[Submit mass nomination](#)

Firm capacity	Daily firm capacity	Interrupt. Contract 1	Interrupt. Contract 2	Interrupt. Contract 3
Date	Nominated value [kWh] - Contract 1	Nominated value [kWh] - Contract 2	Nominated value [kWh] - Contract 3	
02.01.2017	-50,000	-250,000	60,000	
03.01.2017	-50,000	-250,000	60,000	
04.01.2017	-50,000	-250,000	60,000	
05.01.2017	-50,000	-250,000	60,000	
06.01.2017	-50,000	-250,000	60,000	
07.01.2017	-50,000	-250,000	60,000	
08.01.2017	-50,000	-250,000	60,000	
09.01.2017	-50,000	-250,000	60,000	
10.01.2017	-50,000	-250,000	60,000	
11.01.2017	-50,000	-250,000	60,000	
12.01.2017		-250,000	60,000	
13.01.2017			60,000	
14.01.2017				
15.01.2017				
16.01.2017	700,000			
17.01.2017	700,000			
18.01.2017	700,000	30,000		
19.01.2017	700,000	30,000		
20.01.2017	700,000	30,000		
21.01.2017	700,000	30,000		
22.01.2017	700,000	30,000		
23.01.2017	700,000	30,000		
24.01.2017	700,000	30,000		
25.01.2017		30,000		
26.01.2017				
27.01.2017				
28.01.2017				
29.01.2017				
30.01.2017				
31.01.2017				

Screen for filling new mass nomination

- **Firm capacity tab** - each column represents one contract and each row contains value (amount of gas) nominated on that particular gas day. Positive value indicates injection into the virtual gas storage. Negative value indicates withdrawal from the virtual gas storage.

> NEW MASS NOMINATION

Firm capacity			
Daily firm capacity			
Iterrup. Contract 1			
Iterrup. Contract 2			
Date	Nominated value [kWh] - Contract 1	Nominated value [kWh] - Contract 2	Nominated value [kWh] - Contract 3
02.01.2017	-50,000	-250,000	60,000
03.01.2017	-50,000	-250,000	60,000
04.01.2017	-50,000	-250,000	60,000
05.01.2017	-50,000	-250,000	60,000
06.01.2017	-50,000	-250,000	60,000

Filling mass nomination to firm capacity

- **Daily Firm capacity** - is displayed on the second tab (in case that customer has signed daily firm capacity framework). Every editable column represents DFC requests on specific contract and each row contains value (amount of requested daily firm capacity) on that particular gas day. Positive value indicates request to increase injection capacity. Negative value indicates request to increase withdrawal capacity. Read only set of columns on a right side contains information about maximal available injection/withdrawal capacity and unit price per injection/withdrawal capacity.

Firm capacity		Daily firm capacity		Itterup. Contract 1	Itterup. Contract 2	Itterup. Contract 3
Date	Requested injection/withdrawal [kWh] - Contract 1	Requested injection/withdrawal [kWh] - Contract 2	Requested injection/withdrawal [kWh] - Contract 3	Maximal available injection capacity [kWh]	Unit price for injection capacity [CZK/kWh]	Maximal available withdrawal capacity [kWh]
02.01.2017	-150,000		35,000	660,000	0.004	500,000
03.01.2017	-150,000		35,000	660,000	0.004	500,000
04.01.2017	-150,000	20,000	35,000	660,000	0.004	500,000
05.01.2017	-150,000	20,000	35,000	660,000	0.004	500,000
06.01.2017	-150,000	20,000	35,000	660,000	0.004	500,000
07.01.2017	-150,000	20,000	35,000	660,000	0.004	500,000
08.01.2017	-150,000	20,000	35,000	660,000	0.004	500,000
09.01.2017	-150,000	20,000	40,000	660,000	0.004	500,000
10.01.2017	-150,000	20,000	40,000	660,000	0.004	500,000
11.01.2017	-150,000	20,000	40,000	660,000	0.004	500,000
12.01.2017	-150,000	20,000	40,000	660,000	0.004	500,000
13.01.2017	-150,000	20,000	40,000	660,000	0.004	500,000
14.01.2017	-150,000		40,000	660,000	0.004	500,000
15.01.2017	-150,000		40,000	660,000	0.004	500,000
16.01.2017	-150,000		40,000	660,000	0.004	500,000
17.01.2017	-150,000		40,000	660,000	0.004	500,000
18.01.2017	-150,000		40,000	660,000	0.004	500,000
19.01.2017	-150,000		40,000	660,000	0.004	500,000
20.01.2017	-150,000			660,000	0.004	500,000
21.01.2017	-150,000			660,000	0.004	500,000
22.01.2017	-150,000			660,000	0.004	500,000
23.01.2017				660,000	0.004	500,000




Filling mass nomination for daily interruptible capacity

- **Interruptible capacity** is displayed on third and following tabs separately for each contract. Interruptible capacity tabs are not displayed in case that customer did not signed interruptible capacity framework. In case that user wants to submit interruptible capacity nomination on specific contract and gas day - requested interruptible capacity, offered price and nominated value has to be filled in.

Firm capacity	Daily firm capacity	Interrupt. Contract 1	Interrupt. Contract 2	Interrupt. Contract 3	
Date	Requested interruptible capacity [kWh]	Offered unit price for interruptible capacity [CZK]	Nomination for interruptible capacity [kWh]	Minimum price for interruptible injection capacity [CZK]	Minimum price for interruptible withdrawal capacity [CZK]
02.01.2017				0.006	0.012
03.01.2017	100,000	0.006	100,000	0.006	0.012
04.01.2017	100,000	0.006	100,000	0.006	0.012
05.01.2017	100,000	0.006	100,000	0.006	0.012
06.01.2017	100,000	0.006	100,000	0.006	0.012
07.01.2017	100,000	0.006	100,000	0.006	0.012
08.01.2017	100,000	0.006	100,000	0.006	0.012
09.01.2017	100,000	0.006	100,000	0.006	0.012
10.01.2017	100,000	0.006	100,000	0.006	0.012
11.01.2017	100,000	0.006	100,000	0.006	0.012
12.01.2017	100,000	0.006	100,000	0.006	0.012
13.01.2017	100,000	0.006	100,000	0.006	0.012
14.01.2017	100,000	0.006	100,000	0.006	0.012
15.01.2017	100,000	0.006	100,000	0.006	0.012
16.01.2017	100,000	0.006	100,000	0.006	0.012
17.01.2017	100,000	0.006		0.006	0.012
18.01.2017	100,000	0.006		0.006	0.012

Filling mass nomination for interruptible capacity

- **Using clipboard** - when working with “mass nomination form” user may use clipboard to copy paste values from/to MS Excel.

E19		:				
	A	B	C	D		
1	500000					
2	500001					
3	500002					
4	500003					
5	500004					
6	500005					
7	500006					
8	500007					
9	500008					
10	500009					
11	500010					

Values on list in Microsoft Excel application

Select a desired block of cells, type in value and use ctrl + enter keyboard shortcut.

Nomination for interruptible capacity [kWh]	Minimum price for interruptible injection capacity [CZK]	Minimum price for interruptible withdrawal capacity [CZK]
	0.006	0.012
50,000	0.006	0.012
50,001	0.006	0.012
50,002	0.006	0.012
50,003	0.006	0.012
50,004	0.006	0.012
50,005	0.006	0.012
50,006	0.006	0.012
50,007	0.006	0.012
50,008	0.006	0.012
50,009	0.006	0.012
50,010	0.006	0.012

Values in first row copied from Microsoft Excel application

- **Copy values** - user may as well select one or more cells and extend the selection in any direction to copy values.

16.01.2017	100,000
17.01.2017	100,000
18.01.2017	100,000
19.01.2017	
20.01.2017	
21.01.2017	
22.01.2017	

Selecting cell displays blue frame

16.01.2017	100,000
17.01.2017	100,000
18.01.2017	100,000
19.01.2017	100,000
20.01.2017	100,000
21.01.2017	100,000
22.01.2017	100,000

By this function has values copied to other cells

As soon as the “mass nomination form” is filled in - user may press the green button "Send mass nomination" to **send all values** from all tabs into the system. It may take few seconds to view sent values in mass nomination form.

3.3 Nomination overview

The table “Nomination overview” displays all nominations entered by users. The table contains following columns:

- **ID** - unique identifier.
- **Gas Day** - gas day which the nomination was submitted for.
- **Received at** - CET/CEST time when the nomination was received by the system.
- **Status** - determines the status of the nomination:
 - **Received** - nomination was just received.
 - **Waiting** - nomination was received. Requested values were saved into proper time series and the system is waiting to finally process the nomination during next acceptance window.
 - **Processed by NAOS or Processed** - nomination has been processed by computing core.
 - **Waiting for decision** - nomination is waiting for dispatcher’s decision.
 - **Accepted** - nomination was accepted.
 - **Matching requested** - nomination was accepted and matching from TSO was requested.
 - **Overchanged** - nomination was changed by another nomination for the same gas day.
- **Message ID** - unique identifier of the message generated by market operator.

NOMINATION OVERVIEW

ID ▼	Gas Day	Received at	Status	Message ID		
1008888	1/2/2017	1/1/2017 8:25:21 PM	Matched and confirmed	NOMINT20200101A68777	⚙	▲
1009999	1/2/2017	1/1/2017 7:55:20 PM	Matched and confirmed	NOMINT20200101A85113	⚙	
10011111	1/2/2017	1/1/2017 7:25:18 PM	Overchanged	NOMINT20200101A64555	⚙	
1002222	1/2/2017	1/1/2017 6:25:32 PM	Matched and confirmed	NOMINT20200101A14525	⚙	
1003333	1/2/2017	1/1/2017 5:25:18 PM	Matched and confirmed	NOMINT20200101A65254	⚙	
1004444	1/2/2017	1/1/2017 4:25:33 PM	Matched and confirmed	NOMINT20207010145552	⚙	▼

Table with overview of sent nominations

User may click on the settings icon to display details of nomination message.

NOMINATION OVERVIEW

Close

BASIC

ID	1009000
Gas Day	1/2/2017
Status	Matched and confirmed
Message ID	NOMINT20200101A7777
Source	2017-01-01_20-25-19_02247.xml

NOMINATED TO CONTRACTS

Total count: 9

Contract	Contract Type	Nominated Value	Accepted Value	Matched Value
Contract 1	Fixed capacity	-1,350,000	-1,350,000	-1,350,000
Contract 1	Interruptible capacity	0	0	0
Contract 1	Intraday interrupt. capacity	0	0	0
Contract 2	Fixed capacity	-7,500,000	-7,500,000	-7,500,000
Contract 2	Interruptible capacity	0	0	0
Contract 2	Intraday interrupt. capacity	0	0	0

RECIEVED MATCHINGS

Total count: 1

Received at	Status	Message ID
1/1/2017 9:46:03 PM	Saved	DELRES20200101A00015

Nomination message detail

Nomination detail contains following elements:

Basic - Provides basic information about the nomination.

- **ID** - unique identifier of nomination message.
- **Gas Day** - gas day when nomination was submitted.
- **Status** - status of nomination message (same types as in the overview).
- **Message ID** - unique identifier generated by the market operator.
- **Source** - name of the nomination source - usually a file name.

Nominated to contracts - in case that customer has several valid contracts this section will contain a list of values, each nominated value will be assigned to exactly one contract.

- **Contract** - name of the contract.

- **Contract type** - type of the contract.
- **Nominated value** - value nominated on contract.
- **Accepted value** - value accepted by dispatcher of Gas Storage CZ.
- **Matched value** - resulting value negotiated between Gas Storage CZ GSN and transmission system operator.

Received matchings

- **Received at** - CET/CEST time indicating when the matching message from TSO was received.
- **Status**
 - **Received** - matching was just received but not processed.
 - **Saved** - matching was processed and saved to database.
 - **Error** - matching procedure was aborted.
- **Message ID** - unique identifier of the message generated by transmission system operator.

3.4 Matching overview

“Matching overview” web page displays a table of all matching messages received from transmission system operator. The table contains following columns:

- **ID** - unique identifier.
- **Gas Day** - gas day of matching message.
- **Received at** - CET/CEST time indicating when the matching message from TSO was received.
- **Status**:
 - **Received** - matching was just received but not processed.
 - **Saved** - matching was processed and saved to database.
 - **Error** - matching procedure was aborted.
- **Message ID** - unique identifier of the message generated by transmission system operator.

MATCHING OVERVIEW

Id ▼	Gas Day	Received at	Status	Message ID	
1057409	1/2/2017	1/2/2017 3:46:32 PM	Saved	DELRES20200102A00036	⌵
1057545	1/2/2017	1/2/2017 2:46:32 PM	Saved	DELRES20200102A00035	⌵
1056666	1/3/2017	1/2/2017 2:46:06 PM	Saved	DELRES2020102A00034	⌵
1053333	1/2/2017	1/2/2017 1:46:03 PM	Saved	DELRES20200102A00033	⌵
1053322	1/2/2017	1/2/2017 12:46:03 PM	Saved	DELRES20200102A00032	⌵
1057239	1/2/2017	1/2/2017 11:45:33 AM	Saved	DELRES20170102A00031	⌵
1057225	1/2/2017	1/2/2017 10:45:32 AM	Saved	DELRES20170102A00030	⌵
1054558	1/2/2017	1/2/2017 9:46:03 AM	Saved	DELRES2020102A00029	⌵
2030025	1/2/2017	1/2/2017 8:45:33 AM	Saved	DELRES20200102A00028	⌵

Table containing accepted matching message overview

User may click on the settings icon to display details of nomination message.

MATCHING OVERVIEW

Close

BASIC

ID	20000
Gas Day	1/2/2017
Status	Saved
Message ID	DELRES20200102A000444
Source	2017-01-02_15-46-19_RWEGSCZ_NET4GAS_NET4GAS_04450672.xml

MATCHING TO CONTRACTS

Total count: 9

Contract	Contract Type	Matched Value
Contract 1	Fixed capacity	-7,250,000
Contract 1	Interruptible capacity	0
Contract 1	Intraday interrupt. capacity	0
Contract 2	Fixed capacity	-4,500,000
Contract 2	Interruptible capacity	0
Contract 2	Intraday interrupt. capacity	0
Contract 3	Fixed capacity	10,250,000

Matching message detail

Detail of a matching message contains the following elements:

Basic - provides basic information about the matching message

- **ID** - unique identifier of matching message.
- **Gas Day** - gas day of matching message.
- **Status** - status of matching message (same types as in the overview).
- **Message ID** - unique identifier generated by transmission system operator.
- **Source** - name of the matching source - usually a file name.

Matching to contracts - in case that customer has several valid contracts this section will contain a list of values, each matched value will be assigned to exactly one contract.

- **Contract** - name of the contract.
- **Contract type** - type of the contract.
- **Matched value** - resulting value negotiated between GSN and transmission system operator.

Nomination - link to the list of nominations connected with selected matching message.

3.5 Active/archived contracts

User can browse through all valid/archived contracts on the active/archived contract screen. The screen contains following information:

- **Injection capacity in kWh** - injection capacity of the contract for current gas day.
- **Withdrawal capacity in kWh** - withdrawal capacity of the contract for current gas day.
- **Working gas volume in kWh** - contracted level of working gas volume for current gas day.
- **Balance Account in kWh** - actual level of contract balance account (gas stored in virtual gas storage).

Contract screen contains set of time series:






- **Time series (IC, WC, WGV, CBA)**
 - **Injection capacity in kWh** - contracted injection capacity per each gas day.
 - **Withdrawal capacity in kWh** - contracted withdrawal capacity per each gas day.
 - **Working gas volume in kWh** - contracted working gas volume per each gas day (in kWh).
 - **CBA %** - contract balance account (in percentage). 100% means that level of used working gas volume has reached its maximum.
- **Prediction**
 - **Expected injection/withdrawal in kWh** - estimated injection / withdrawal of gas into virtual gas storage. Positive numbers represent the injection, negative numbers represent withdrawal.
 - **Expected increase of injection/withdrawal capacity in kWh** - estimated increase of the maximum injection/withdrawal capacity based on expected use of interruptible injection/withdrawal capacity or daily firm capacity. Positive numbers represent the injection, negative numbers represent withdrawal.
 - **Computed Prediction**
 - **Predicted Development of CBA - Inj. Scenario in kWh** - predicted development of contract balance account in case of maximal injection based on contracted injection capacity and injection curve. Expected technical unavailabilities are taken into account as well.
 - **Predicted Development of CBA - With. Scenario in kWh** - predicted development of contract balance account in case of maximal withdrawal based on contracted withdrawal capacity and withdrawal curve. Expected technical unavailabilities are taken into account as well.
 - **Predicted Development of CBA - User Scenario in kWh** - predicted development of contract balance account based on user injection/withdrawal scenario.
- **Firm capacity**
 - **Time series (Nomination, Matching, Allocation)**

- **Nominated values in kWh** - original values sent by customer (via OTE or via web portal) in nomination message.
 - **Matched values in kWh** - matching values received from transmission system operator.
 - **Allocated values in kWh** - amount of gas transferred between transmission system operator and virtual gas storage.
 - **CBAIn%** - actual level of contract balance account (gas stored in virtual gas storage).
- **Interruptible capacity** - (is active only in case that customer has signed interruptible capacity framework).
 - **Time series (Request capacity, Nomination, Matching, Allocation)**
 - **Nominated values in kWh** - original values sent by customer (via OTE or via web portal) in nomination message.
 - **Matched values in kWh** - matching values received from transmission system operator.
 - **Allocated values in kWh** - amount of gas transferred between transmission system operator and virtual gas storage.
 - **Requested capacities in kWh** - interruptible capacities requested on the nomination form.
- **Intraday interruptible capacity** - (is active only in case that customer has signed interruptible capacity framework).
 - **Time series (Request capacity, Nomination, Matching, Allocation)**
 - **Nominated values in kWh** - original values sent by customer (via OTE or via web portal) in nomination message.
 - **Matched values in kWh** - matching values received from transmission system operator.
 - **Allocated values in kWh** - amount of gas transferred between transmission system operator and virtual gas storage.
 - **Requested capacities in kWh** - intraday interruptible capacities requested on the nomination form.
 - **CBA in %** - actual level of contract balance account (gas stored in virtual gas storage).

All time series and their values are displayed in a table mode. Please see chapter “Quick Table 3.6”.

Gas Storage CZ

› GSTCOMA (CBA 75.5 %)

 CONTRACTUAL DATA <ul style="list-style-type: none"> › Valid from 1/4/2019 › Valid to 3/31/2021 › Terms / conditions for gas day 8/7/2020 <ul style="list-style-type: none"> › Injection capacity 4,500,000 kWh/d › Withdrawal capacity -4,400,000 kWh/d › Working gas volume 500,250,000 kWh › Balance Account 375,600,000 kWh › Buy TWGV › Time series (IC, WC, WGV, CBA) 	 FIRM CAPACITY <ul style="list-style-type: none"> › Time series (Nomination, Matching, Allocation)
 PREDICTION <ul style="list-style-type: none"> › Entry Conditions <ul style="list-style-type: none"> › Expected Injection/Withdrawal [kWh/d] › Expected Increase of Inj/With Capacity [kWh/d] › Computed Prediction 	 INTERRUPTIBLE PART <ul style="list-style-type: none"> › Time series (Requested capacity, Nomination, Matching, Allocation)
	 INTRADAY INTERRUPTIBLE PART <ul style="list-style-type: none"> › Time series (Requested capacity, Nomination, Matching, Allocation)

Quick

Table

Quick table is used to display and eventually modify values of time series. Time series are displayed in separate columns. Each row contains a value computed using aggregation function.

Following controls may be used in quick table:

- **From - To** - range of data cached and displayed in quick table.
- **Rows** - sample for each row in the table (hours, days, weeks...).
- **Aggregation of row values** - aggregation function used in case that original sample of data stored in time series is different from selected sample. Please see "Rows" option.
- **Export button** - exports selected data into xlsx file.

> FIRM CONTRACTUAL DATA

Display chart

From	1/1/2017 6:00 AM	To	1/2/2018 12:00 AM	Rows	Days
Aggregation of row values		Average		Export	

Date and time	Injection Capacity [kWh/d]	Withdrawal Capacity [kWh/d]	Working Gas Volume [kWh/d]	Working Gas Volume [Nm3/d]
1/1/2017	500.000	-500.000	--	1,233.000
1/2/2017	500.000	-500.000	--	1,233.000
1/3/2017	500.000	-500.000	--	1,233.000
1/4/2017	500.000	-500.000	--	1,233.000
1/5/2017	500.000	-500.000	--	1,233.000
1/6/2017	500.000	-500.000	--	1,233.000
1/7/2017	500.000	-500.000	--	1,233.000
1/8/2017	500.000	-500.000	--	1,233.000
1/9/2017	500.000	-500.000	--	1,233.000
1/10/2017	500.000	-500.000	--	1,233.000
1/11/2017	500.000	-500.000	--	1,233.000
1/12/2017	500.000	-500.000	--	1,233.000

Quick table

- **Display chart button** - switches the display mode into chart view:
 - **Show period** - to set the range of displayed values per week, month, year. By default, the current gas day + - 7 days is displayed.
 - **Range** - range of data projected into chart.
 - **Coverage chart** - serves for easy navigation and an overview of the entire duration of the contract
 - **Export** - exports the displayed data in pdf format.
 - **Value table** - displays the maximum, minimum, and average values of the given time series for the selected period.
 - **Display numeric value** - when you move the mouse to the curve, the numerical value of the time series for the given day is displayed.
 - **Show/hide time series** - clicking on the time series in the legend will hide its curve within the graph. Clicking once again returns the curve.



Gas Storage CZ



Select values for a period 5/1/2020 - 7/1/2020 [Export](#)

	Allocated Values [kWh/d]	Matched Values [kWh/d]	Nominated Values [kWh/d]
Minimum	0	0	0
Maximum	8,622,000	8,622,000	8,622,000
Average	5,488,611	5,592,170	5,699,712

Chart component



Gas Storage CZ

In case that quick table is open for time series “Expected injection/withdrawal” then is in editable mode. Quick table in the following mode contains these controls:

- **Paste mode** - turns on the insert mode allowing user to use clipboard and copy/past function.
- **Save changes** - save changed values.
- **Cancel changes** - cancel all unsaved modifications.

From 1/1/2017 6:00 AM To 1/1/2018 12:00 AM Rows Days

Aggregation of row values Average ☒ Paste mode Export Changes save Cancel changes

Date and time	Expected Injection/Withdrawal [kWh/d]
1/5/2017	50,000.000
1/6/2017	40,000.000
1/7/2017	300,000.000
1/8/2017	2,000.000
1/9/2017	30,000.000
1/10/2017	--
1/11/2017	--
1/12/2017	25,000.000
1/13/2017	-10,000.000

Quick table in edit mode with insert mode on

3.6 Transfer / lease capacity / gas

► TRANSFER/LEASE CAPACITY/GAS

Select a contract

Select contract ▼

☐ I agree with Terms. [View Terms and Conditions](#)

TRANSFER/LEASE CAPACITY

TIME PERIODS ⓘ

From

8/12/2020

To

8/15/2020

Amount of transferred/leased injection capacity

0 kWh

Amount of transferred/leased withdrawal capacity

0 kWh

Amount of transferred/leased WGV

0 kWh

Type
☒ Transfer
☐ Lease

Transfer capacity

TRANSFER GAS

Day of Gas Transfer

8/12/2020

Amount of transferred gas

0 kWh

Transfer gas

Customer may transfer gas or transfer/lease injection capacity, withdrawal capacity and working gas volume on specific gas day. Transfers/leases can be initiated using “Transfer/Lease Capacity/Gas” webpage.

Screen transfer/lease capacity/gas

Common part (obligatory for both - gas and capacity transfers):

- **Select a contract** - source contract from which capacities or gas will be transferred.
- **I agree with Terms** - agreement of terms and conditions. <https://www.rwe-gasstorage.cz/en/documents/storage-code-and-price-list>

Transfer / lease capacity (Left part):

- **Date From - To** - start date/end date (date represents gas day) of capacity transfer.
- **Amount of transferred / leased injection capacity** - the amount of injection capacity in kWh, which will be transferred/leased to another contract or other customer.
- **Amount of transferred / leased withdrawal capacity** - the amount of withdrawal capacity in kWh, which will be transferred/leased to another contract or other customer.
- **Amount of transferred / leased WGV** - the amount of working gas volume in kWh, which will be transferred/leased to another contract or other customer.
Note: customer can transfer / lease one or more types of capacity (working gas volume, injection and withdrawal) within single action.
- **Type {Transfer, Lease}** - determines whether capacities will be transferred or leased.
- **Button Transfer/Lease capacity** - submits transfer/lease request to the system and generates Unique ID of the transfer/lease.

(Right part) Transfer gas

- **Day of Gas Transfer** - date when specified amount of gas will be transferred from selected contract.
- **Amount of transferred gas** - the amount of gas in kWh, which will be transferred from selected contract to other contract or possibly other customer.
- **Button Transfer gas** - submits gas transfer to the system and generates Unique ID of gas transfer.

After clicking on the “Transfer capacity/gas” button the task can be canceled by clicking on “No” button or confirmed by clicking on “Yes” button. In case that task is confirmed the unique ID identifying capacity/gas transfer is generated. User is kindly asked to carefully save generated ID.

CONFIRMATION

Gas transfer was completed with following unique ID:
aac794da-a260-4711-a00d-ebff97cebac1

PLEASE SAVE FOLLOWING UNIQUE ID!

Ok

Recapitulation containing unique identifier of gas transfer

3.7 Receive capacity / gas

Unique ID identifying gas/capacity transfer/lease is necessary to receive gas or capacities transferred from other contract or possibly other customer. At first user has to specify “Unique ID” than select a contract where gas/capacities will be accepted.

› RECEIVE CAPACITIES/GAS

Unique ID

?

Verify Unique ID

Window for transfer/lease receive

- **Unique ID** - in this field is filled key of transfer / lease that was displayed when you create a transfer/lease. If you are converting capacity / gas from other companies, so it is necessary to ask for the key that company.
- **Verify Unique ID button** - button to verify the validity of the entered key.

By filling unique id and clicking on the "Verify Unique ID" will be required to validate the transfer/transmission. If the validation is successful they will be added following items:

- **Destination contract** - contract where accepted gas/capacities will be transferred.
- **Receive capacities / gas to new contract** -
- using this option customers request to create new contract where capacities will be transferred.
- **Unique ID** - Unique ID identifies gas/capacity transfer/lease.
- **I agree with Terms** - agreement of terms and conditions. <https://www.rwe-gasstorage.cz/en/documents/storage-code-and-price-list>
- **Verify transfer / lease** - submits a request to verify and transfer gas/capacities.

DELIVERY CONFIRMED



You are creating gas transfer with following parameters.

Contract: Contract 2
Unique ID: 010bb07e-93c7-45e9-a557-b73a280f8b01
Day of Gas Transfer: 05.01.2017
Amount of transferred gas: 10 000 kWh
Confirm transfer?

Yes

No

Gas Storage CZ

At this stage of gas/capacities acceptance process the task can be canceled by clicking on “No” button or confirmed by clicking on “Yes” button. After the task is confirmed - Sales department of Gas Storage CZ will receive an e-mail notification with all gas/capacity transfer parameters and will approve/not approve the transaction. User/Customer will be notified via email as soon as gas/capacities will be transferred.

CONFIRMATION

Transfer/lease of capacities/gas was successfully accepted.

Ok (4)

3.8 User reports

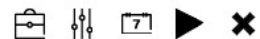
User may create custom reports and let the system generate them in MS XLSX format periodically (or just once). All generated reports can be downloaded directly from the web portal or sent by the system to the user via email.

“User reports” web page is located in the top menu of web portal.



REPORTS

> Report



New report

User may create new report template by clicking on “New report” function.



Gas Storage CZ

PARAMETERS

Report name

Description

COLUMNS

Selected columns

New column

Save

Close

- **Report name** - name the report.
- **Description** - description of the report used only for customer purposes.
- **Selected column** - set of time series. Values of each time series will be exported in separate column. User may select one or more time series and modify their name exported in the header of report.
 - **Column setup** - column setting.

COLUMNS

Selected columns

New column

COLUMN SETUP

Column name

Description

Aggregation functions (?)

Save

Cancel

- **Column name** - name of the exported column.
- **Aggregation functions** - aggregation function used in case that values are re-sampled into different sample from original (stored in time series).
- **Description** - description of the column (not used in the report).
- **Save button** - saves the template.

- **Close button** - cancel all changes and closes the form.

As soon as report definition is saved user is redirected back to the list of reports where user can download, modify or delete any of already existing reports.

- **Folder** (or clicking directly on the name of report) - redirects user to a screen with the list of generated reports.

➤ REPORT

LIST OF GENERATED REPORTS					
Generate	Export from	Export to	Task name	State	
1/2/2017 4:05:17 PM	12/2/2016	1/2/2017	Report	OK - Published	
<div>⏪ ⏩ 1 ⏪ ⏩</div>					1 - 1 of 1 items
<div>Generate report Automatic report generation</div>					

This screen displays all generated reports, which can be downloaded and saved directly by clicking on the folder icon.

- **Generate a report** - generates a new report from the template. **“Play button”**.
- **Automatic report generation** - opens a scheduler where user can setup automatic exports of the report (“Settings button”).
- **Settings**- redirects a user to the setting of user reports.
- **Calendar** - redirects a user to the scheduler - to automatically generate reports.

GENERAL SETTINGS

Name of the task

Task 2017-01-02-16-05-43

☒ Active

Start date

1/2/2017 4:05 PM



Sample

Days

Frequency

Daily

Export data range

Actual day

SEND REPORT TO EMAIL ADDRESS(ES) (OPTIONAL)

Email addresses (?)

myboss@company.cz

Email body

Hi,

report is included in attachment.

Save

Close

- **Name of the task** - unique identifier of the task.
- **Active** - in case that task is active - report will be automatically generated.
- **Start date** - the very first date when the report will be generated.
- **Sample** - sample of data in generated report.
- **Frequency** - identifies how often the report should be generated.
- **Export data range** - range of data exported in the report (for example 1 year of data range in daily sample will contain 365 values).
- **E-mail address** - email address or set of email addresses separated by comma - identifying where generated report will be send.
- **E-mail body** - body of the email.
- **Save button** - saves the setup of scheduled task.
- **Close button** - cancels all changes of the scheduled task.
- **Play** - generates report immediately.



Gas Storage CZ

PARAMETERS

Export data range - from

12/2/2016



Export data range - to

1/2/2017



Sample

Days



SEND REPORT TO EMAIL ADDRESS(ES) (OPTIONAL)

Email addresses

Email body

Generate report

Close

- **Export data range (From - To)** - range of exported data.
- **Sample** - sample of exported data (hours, days, weeks, ...).
- **E-mail address** - email address or set of email addresses separated by comma - identifying where the generated report will be send.
- **E-mail body** - body of the email.
- **Generate report button** - generates report immediately.
- **Close button** - closes web page and opens list of reports.
- **Cross** - deletes selected report.



REPORTS

> Report

New report

