

M-GAS USER GUIDE

30 DECEMBER 2019

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INTRODUCTION

This guide describes the features of the **M-GAS (spot gas market MP-GAS and forward gas market MT-GAS), MGS (the regulated market for the trading of gas stored), MPL (locational products market), MAST (gas market for SRG TSO auction)** which belong to the **Gas Market Platform**. The guide is intended for participants, who will find here all the pages of the portal and the description of all the features that they may access.

TYPES OF USERS

M-GAS, MPL, MAST and MGS platforms distinguish between **users** and **participants**. The user has the credentials to participate in the M-GAS platform, or in the balancing market platforms MGS and MPL, and in the Gas Platform for SRG TSO MAST auctions and use their features. Each user may be associated with one or more gas market participants. Therefore, each transaction towards the system is carried out by the user on behalf of a participant.

The portal manages two types of users:

- **User:** conventional user authorised to use all the features available for participants, e.g. submitting transactions.
- **Viewer:** user authorised only to view the data without submitting transactions into the system.
- **MT-GAS user:** similar to the user, he/she may submit and manage bids/offers only for the products of the forward segment, i.e. all types of products except those for the MI and MGP. For MI and MGP products, this user acts as a viewer.
- **MGAS user:** similar to the user, he/she may submit and manage bids/offers only for the products of the spot segment, i.e. only the types of products for the MI and MGP. For the remaining types of products, this user acts as a viewer.

In this guide, unless otherwise specified, reference will be made to **users**.

The four portals are integrated. Therefore, an M-GAS user is also authorised for the MPL balancing platform and for the balancing markets MGS and for the Gas Platform for SRG TSO MAST auctions. In this case, the user shares the access and signature credentials (as shown later on) among the various platforms.

Conversely, a gas market participant is authorised always for all the platforms (M-gas, Mgs, Mpl and Mast with a unique authorization to MGAS). The user accessing the M-GAS will have all participants assigned to him enabled for that platform.

THE FEATURES OFFERED BY THE MGAS PORTAL

This section describes the features offered by the portal. First, the user must obtain access to the portal. After completing all the procedures specified by the applicable legislation, the user must register with the portal as indicated in the following paragraphs.

REGISTRATION WITH THE PORTAL

Go to the <https://gas.ipex.it/gaswebsite/Register.aspx> page and submit your credentials. When you try to access the page, you will get a pop-up window (Figure 1). On this window, you may select the certificate to be used for future authentication with the portal. Select one certificate and click on **Ok**.

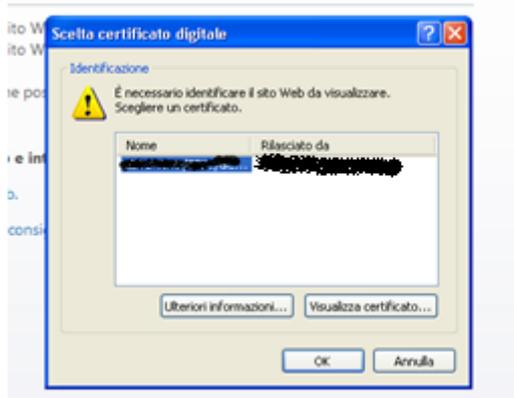


Figure 1: selection of authentication certificate

In the page shown below, you may enter your key data for registration, i.e. your name and surname and the registered name/company name of the participant with whom/which you are associated. You may also add a textual note to your identification data.

REGISTRATION DATA

Figure 2: entry of key identification data

After filling in the required fields, click on **invia** (send) to enter your request into the system. You will receive a message about successful or unsuccessful completion of the request.

AUTHENTICATION

Authentication with the portal takes place through a **client authentication certificate**.

After authentication, you will retain the credentials to operate on the portal until the session expires or is explicitly closed.

SIGNATURE CERTIFICATE MANAGEMENT

To use a signature certificate, you must set up your computer in order to support software certification, as explained later on.

SIGNATURE SUPPORT SET-UP

To authenticate with the portal and sign the content of messages, you must install a plug-in which supports certificate activities. First, download the installation file from GMECabs/GMECabs.exe.

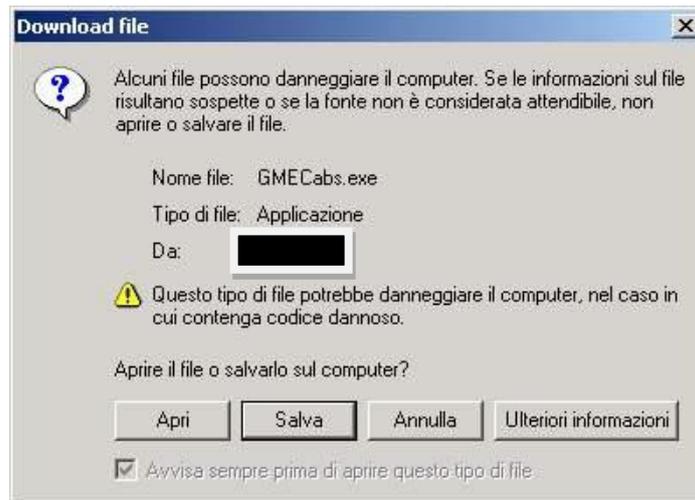


Figure 3: Plug-in download

After completing the download, save the file without running it (Figure). Save the file to any directory, e.g. **c:\plugin**.

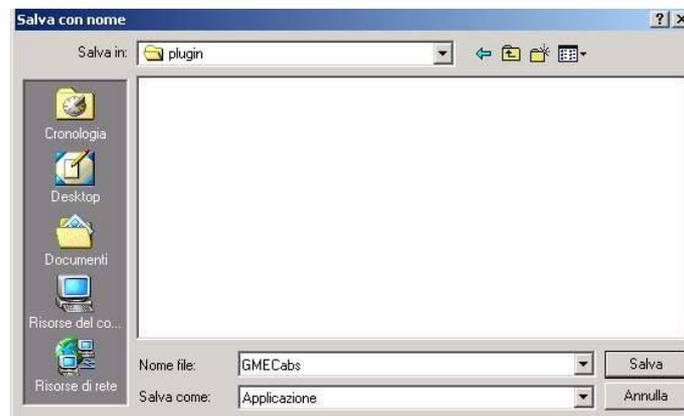


Figure 4: saving of installation file

After saving the file, open an MS-DOS prompt window. On Windows **Start** menu, click on **Run** and enter **cmd**.

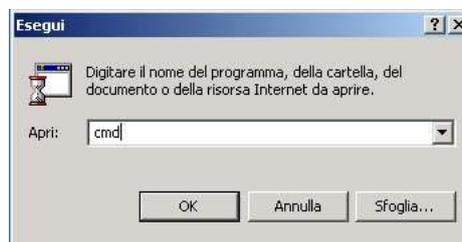


Figure 5: launching of MS-DOS window

Now, go to the directory where you have saved the installation file (e.g. `c:\plugin`) and enter `cd c:\plugin`.



Figure 6: access to the installation file directory

After entering into the `c:\plugin` directory, run the `GMECabs.exe` file, by entering `GMECabs.exe`, as shown in Figure 7.



Figure 7: running of GMECabs.exe.

Then, confirm the directory where the files will be extracted (e.g. `c:\plugin`).

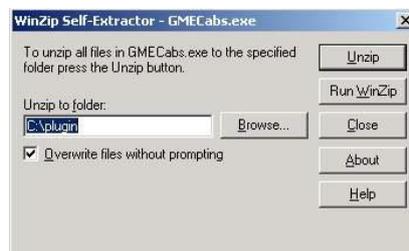


Figure 8: directory where the files will be extracted

Finally, access the `GMECabs` subdirectory by entering the `cd GMECabs` command and run the `.bat` file as shown in Figure 8 and 9.

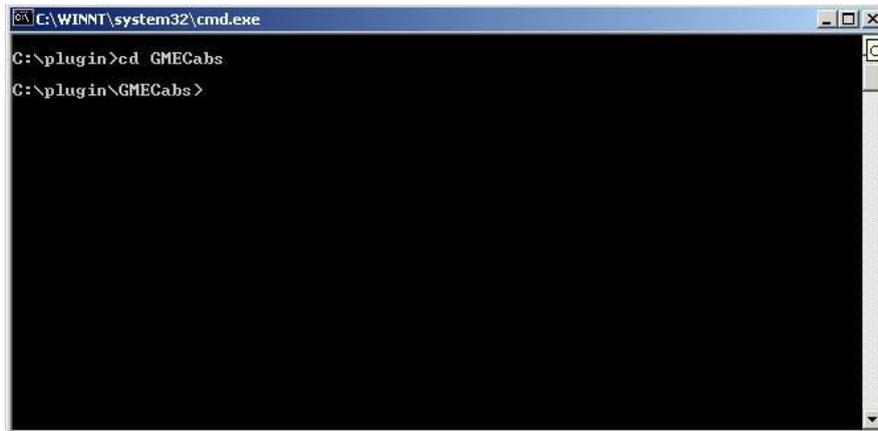


Figure 9: access to the GMECabs directory

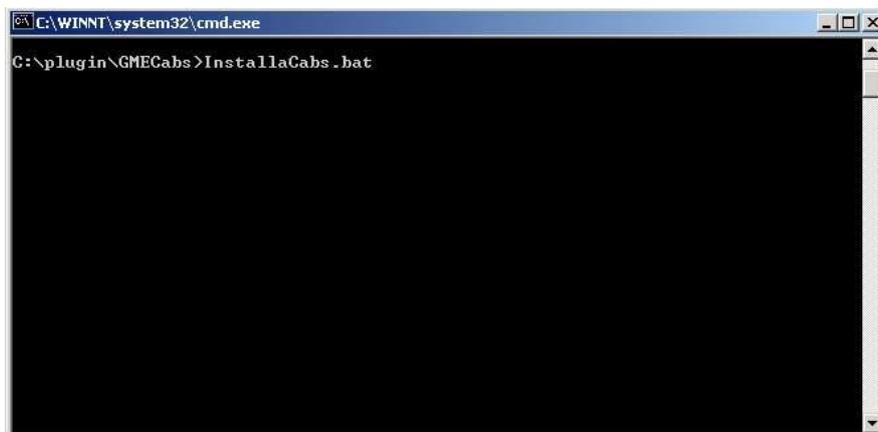


Figure 10: running of the .bat file.

Now, you may register with the system with your own certificate.

ADDITION OF A NEW SIGNATURE CERTIFICATE

By clicking on [gestione firma \(signature management\)](#), you access a page on which you may manage your signature certificate. If you have no signature certificate, the page will be as shown in Figure 11: through the **Aggiungi** (add) link, you may add a certificate.

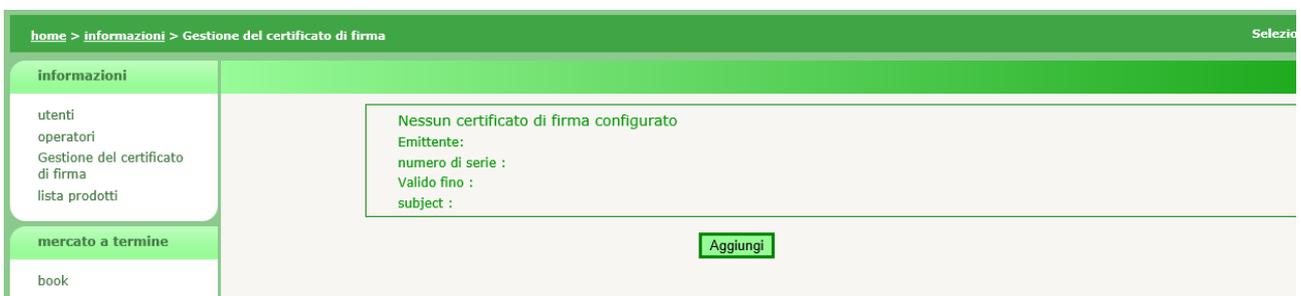


Figure 11: the user has no signature certificate but may add one on this page

By clicking on **Aggiungi** (add), you may select the certificate that you wish to use (to sign the transactions to be entered into the system) among the ones installed in your computer. See Figure 12.



Figure 12: entry of new certificate

After selecting the certificate, its details will be shown on the page. At this stage, you have to confirm the entry of the certificate, by clicking on **Salva** (save).

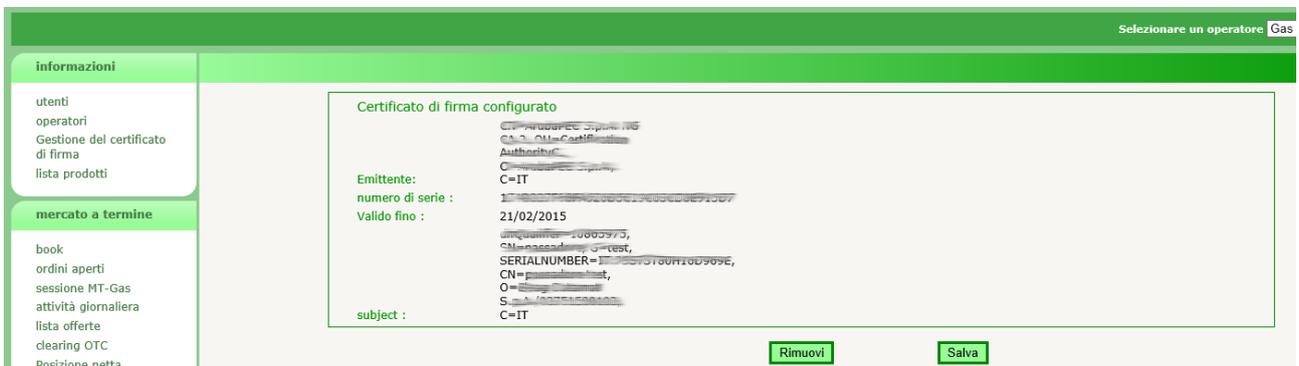


Figure 13: details of the certificate being entered

After entry, the certificate must be authorised by the portal administrator in order to be used in the transactions.

HOME PAGE

Figure 14 displays the home page of the portal with the numbers of its four main sections, which are always available whatever the page opened by the user.

USER DETAILS AND LOGOUT

Section **(1)** shows the name of the authenticated user and his/her role (**user**, **viewer**, **MT-GAS user** or **M-GAS user**). A drop-down menu, placed immediately beside the name, will permit you to select the language in which the content of the portal will be displayed. The content of the pages will be available in the selected language. By changing the language, you will be able not only change the textual parts, but also the date format, in Italian (*it-IT*) or English (*en-GB*), and the decimal separator for figures: comma (",") for Italian and point (".") for English.

By clicking on the  icon on the right side of the screen, you may quit the portal, closing the session. If you wish to access the portal again, you have to authenticate yourself again.

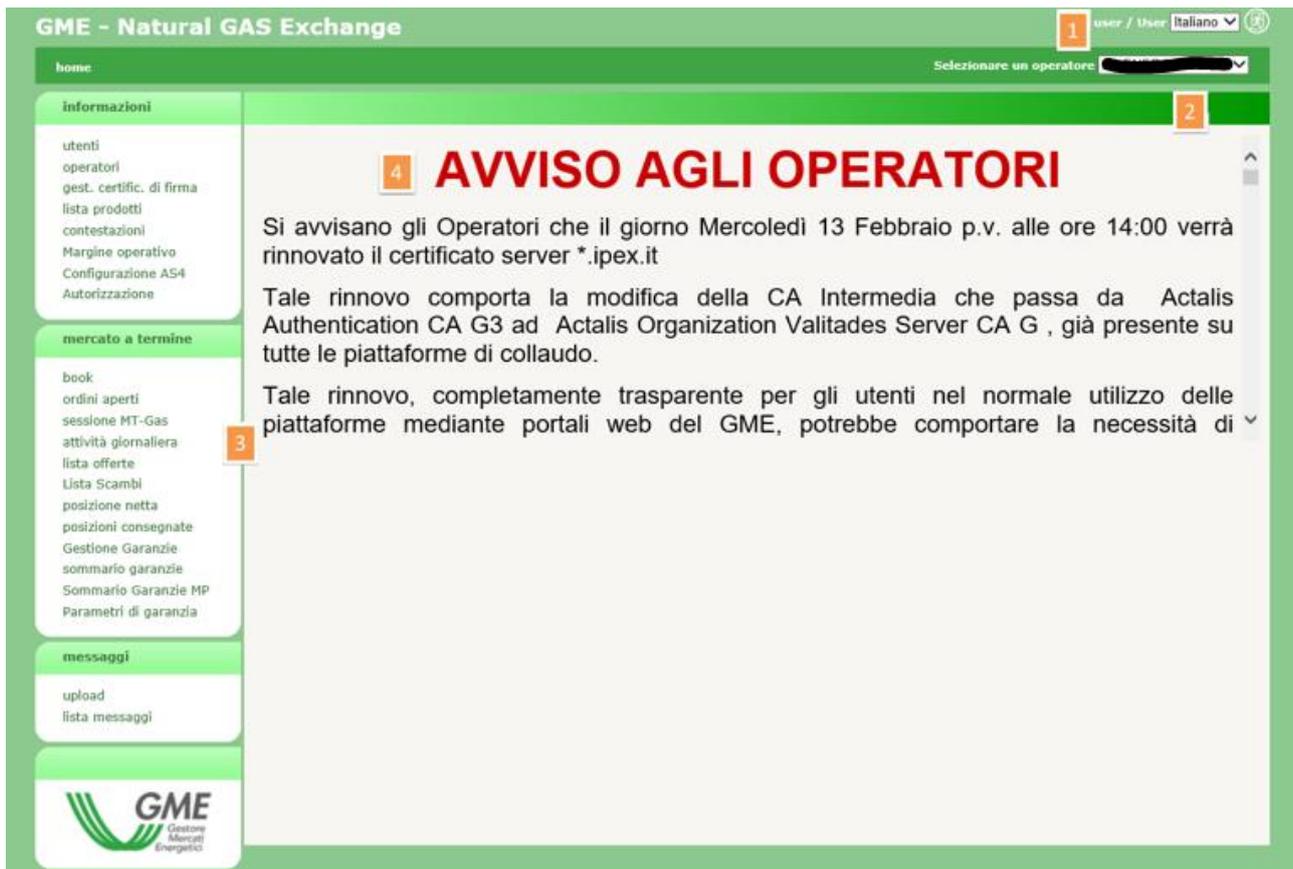


Figure 14: home page of the portal

AUTHORISED PARTICIPANTS

Section **(2)** gives access to a drop-down menu with all the participants authorised to operate in the M-GAS and represented by the current user. The transactions that the user carries out on the portal, e.g. entry of bids/offers, are associated with the participant selected on that menu.

MENU

Section **(3)** is a menu with the link to all the pages that the user may reach. The **data** section gathers all the pages with useful information for users. The **forward market** section groups all the pages for bid/offer entry and monitoring, market session status and results, data on net positions and on the financial guarantee.

Finally, the **messages** section shows all the pages for uploading xml files and the list of input/output messages of the participants associated with the user.

MAIN CONTENT

The last section **(4)** shows the content of the pages. The home page of Figure 3 contains messages to participants.

FILTERS AND REPORTS

Before reviewing the pages of the portal, it is worth describing one feature that is common to all the pages showing a report.



Figure 15: Filters and Excel reports

Each page with a report has a filter section, which is not usually shown when the page is opened. To show it, click on the  icon of the top-right group. Conversely, to hide it, click on the  icon. You will see the filter section where you may enter values to restrict the number of results shown by the underlying report. To download the report taking into account the appropriate filters, click on . Finally, you may export the report in Excel format by clicking on . After clicking on the latter icon, the page will prompt you to save the report in Excel format, showing all the results (obviously without the paging of results appearing on the web page).

For practical purposes, some filters are shown on the columns. Figure 15 (next-to-the-last column “abilitato” – authorised) contains a filter showing all the possible values. After changing the filter, refresh is automatic.

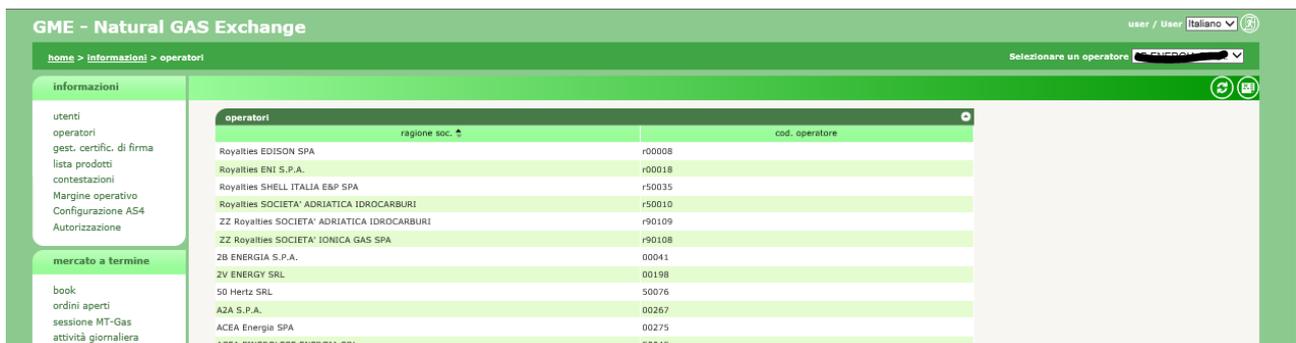


Figure 16: list of participants authorised to operate on the platform

PARTICIPANTS' PAGE

The [participants'](#) page displays the list of participants authorised to operate in the M-GAS. This is a read-only page and only shows the registered name and the code of the participant.

USERS' PAGE

The [users'](#) page is another read-only page displaying all the users authorised to operate on behalf of the participant selected on the top-right drop-down menu.

codice utente	nome	cognome	Descrizione	tel.	email	certificato	cert. di firma	operatori	abilitato	refresh
[redacted]	[redacted]	[redacted]	User			infocert auth AC infocert sign AC	2B ENERGIA S.P.A.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10
[redacted]	[redacted]	[redacted]	User			infocert auth AC infocert sign AC	2B ENERGIA S.P.A.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10
[redacted]	[redacted]	[redacted]	User			ACT	ACT	2B ENERGIA S.P.A.	<input checked="" type="checkbox"/>	10
[redacted]	[redacted]	[redacted]	User			infocert auth AC infocert sign AC	2B ENERGIA S.P.A.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10
[redacted]	[redacted]	[redacted]	User			ACT	ACT	2B ENERGIA S.P.A.	<input checked="" type="checkbox"/>	10
[redacted]	[redacted]	[redacted]	User			ACT	ACT	2B ENERGIA S.P.A.	<input checked="" type="checkbox"/>	10
[redacted]	[redacted]	[redacted]	User			/infocert auth AC ACT	2B ENERGIA S.P.A.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10
[redacted]	[redacted]	[redacted]	User			infocert auth AC infocert sign AC	2B ENERGIA S.P.A.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10
[redacted]	[redacted]	[redacted]	User			ACT	ACT	2B ENERGIA S.P.A.	<input checked="" type="checkbox"/>	10
[redacted]	[redacted]	[redacted]	User	111				2B ENERGIA S.P.A.	<input checked="" type="checkbox"/>	10

Figure 17: users' page

The data in the table are as follows: user name, name and surname of the user, his/her role, data on the authentication and signature certificate, the participant on behalf on which/whom the user is authorised to operate (i.e. the current participant) and the specification of whether the user is authorised or not.

LIST OF PRODUCTS

The next page to be described is the one with the [list of products](#). It is a report with the products created on the platform. Only the products being traded on today's date will be shown by default. However, you may change the filter values, by accessing the hidden filter management window.

nome prodotto	inizio contrat.	fine contrat.	inizio delivery	fine delivery	Periodo di vendita	Giorni di fr.	prezzo di contro	control Price €	abilitato	id msg
CY-2020	30/12/2018 06:00:00	30/12/2019 02:30:00	01/01/2020	31/12/2020	Annuale	366	21,82	0,25	<input checked="" type="checkbox"/>	576294
Q-2020-04	29/09/2019 06:00:00	29/09/2020 02:30:00	01/10/2020	31/12/2020	Trimestrale	92	25,86	0,25	<input checked="" type="checkbox"/>	576291
SS-2020	30/03/2019 06:00:00	30/03/2020 02:30:00	01/04/2020	30/09/2020	Semestrale	183	24,99	0,25	<input checked="" type="checkbox"/>	576292
Q-2020-03	29/06/2019 06:00:00	29/06/2020 02:30:00	01/07/2020	30/09/2020	Trimestrale	92	24,78	0,25	<input checked="" type="checkbox"/>	576290
Q-2020-01	30/12/2018 06:00:00	30/12/2019 02:30:00	01/01/2020	31/03/2020	Trimestrale	91	23,9	0,25	<input checked="" type="checkbox"/>	576288
Q-2020-02	30/03/2019 06:00:00	30/03/2020 02:30:00	01/04/2020	30/06/2020	Trimestrale	91	25,2	0,25	<input checked="" type="checkbox"/>	576289
M-2020-02	31/10/2019 06:00:00	31/01/2020 02:30:00	01/02/2020	29/02/2020	Mensile	29	26,4	0,25	<input checked="" type="checkbox"/>	576287
WE-2019-51	18/12/2019 06:00:00	21/12/2019 02:30:00	21/12/2019	22/12/2019	WeekEnd	2		100	<input checked="" type="checkbox"/>	0
M-2020-03	30/11/2019 06:00:00	29/02/2020 02:30:00	01/03/2020	31/03/2020	Mensile	31	22,12	0,25	<input checked="" type="checkbox"/>	0
BoM-2019-12-11	19/12/2019 06:00:00	20/12/2019 02:30:00	21/12/2019	31/12/2019	Balance of Month	11	25	0,25	<input checked="" type="checkbox"/>	0
MI-2019-12-19	19/12/2019 06:00:00	20/12/2019 02:30:00	19/12/2019	19/12/2019	Giornaliero di MI	1		100	<input checked="" type="checkbox"/>	0
MGP-2019-12-20	17/12/2019 06:00:00	20/12/2019 02:30:00	20/12/2019	20/12/2019	Giornaliero di MGP	1		100	<input checked="" type="checkbox"/>	0
MGP-2019-12-21	18/12/2019 06:00:00	21/12/2019 02:30:00	21/12/2019	21/12/2019	Giornaliero di MGP	1		100	<input checked="" type="checkbox"/>	0
MGP-2019-12-22	19/12/2019 06:00:00	22/12/2019 02:30:00	22/12/2019	22/12/2019	Giornaliero di MGP	1		100	<input checked="" type="checkbox"/>	0

Figure 18: list of products

The displayed columns are as follows: product name, start and end dates of trading, start and end dates of delivery, selling period, supply days, check price, deviation from check price (percentage), specification of whether the product is enabled or not.

CLAIMS

Figure 19 shows the claims page through which you can monitor the progress of claims. Any claim can be inserted and then updated with new messages. You can see a list of all complaints made to a specific Participant, and in particular: The title of the claim, the status, the company's code (participant) to which the claim relates, the user who made the

claim, the time-stamp indicating the time of submission and then a link referred to: the messages associated with the selected claim. Possibility to add a new message to the open claim.

The screenshot shows the GME - Natural GAS Exchange web application. The header includes the logo and navigation links. The main content area displays a table of claims with the following data:

titolo	stato	cod. operatore	utente	timestamp	link
CONTESTAZIONE 19/12/2019	in attesa	00041	user	19/12/2019 10:24:54	messaggi nuovo messaggio

Below the table, there is a pagination control showing 'Pagina 1' and 'Righe da 1 a 1 - N° di righe totali: 1'. On the right side of the table, there are two icons: a green plus sign and a green refresh sign.

Figura 19: claims

By using the icon  you may open the window to insert a claim, as shown in Figure 20.

The form for inserting a new claim contains the following fields and controls:

- cod. operatore:** 0123GD
- utente:** test
- titolo:** A text input field.
- testo:** A text area with a vertical scrollbar.
- firma e invia:** A green button.

Figure 20: insertion of new claim

ORDER BOOK

Now the [forward market section](#) will be described.

Figure 21 shows the [order book](#). Each row of the order book shows the products tradable at the time when the book is displayed. For each product, the system shows the best demand bids and supply orders, if any, and the details of their volumes (expressed in MW) and prices. The lower part of the order book shows the date and time of the latest order book update, which is periodical and automatic.

The screenshot displays the GME - Natural GAS Exchange order book. The interface includes a navigation menu on the left with sections for 'informazioni', 'mercato a termine', 'messaggi', and the GME logo. The main content area is titled 'book' and contains a table with columns for 'nome prodotto', 'acquisto' (quantity and price), and 'vendita' (price and quantity). Below this table, there are summary statistics for 'Giorno GAS', 'Prezzo Medio', 'Quantita Complessiva Movimentata', 'Prezzo Min. SRG', and 'Prezzo Max. SRG' for the dates 19/12/2019, 20/12/2019, 21/12/2019, and 22/12/2019. The latest update is noted as 'Ultimo aggiornamento : 19/12/2019 10:31:47'.

Figure 21: order book

In addition to the above, the page also contains a section dedicated to the price trend (updated with each new coupling). This section shows, for each product traded in M-GAS and for each product traded in MPL in an open session for the purpose of balancing, the following information:

- Average price: weighted average, calculated according to the quantities of gas, expressed in energy, of the prices of all bids/offers accepted, to be delivered on the gas day G, including transactions carried out by SRG.
- Total amount: total quantity, in absolute value, of the bids/offers accepted to be delivered on day G, expressed in MWh (no decimals accepted).
- Minimum SRG price: the lowest price among all the sales, concluded by SRG to be delivered on gas day G.
- Maximum SRG price: the highest price among all the purchases concluded by SRG, to be delivered on gas day G.

The screenshot displays the price trend section of the GME - Natural GAS Exchange. It features a table with the following columns: 'Prodotto', 'Prezzo Medio', 'Quantita Complessiva Movimentata', 'Prezzo Min. SRG', and 'Prezzo Max. SRG'. The data rows include products like MGP-2016-09-20, MGP-2016-09-21, MGP-2016-09-22, MGP-2016-09-23, MI-2016-09-19, and MI-2016-09-20. The latest update is noted as 'Ultimo aggiornamento : 20/09/2016 12.26.48'.

Figure 22: Price trend

To change the refresh time, click on the top-right  icon and enter the refresh time in seconds, as shown in Figure 23.

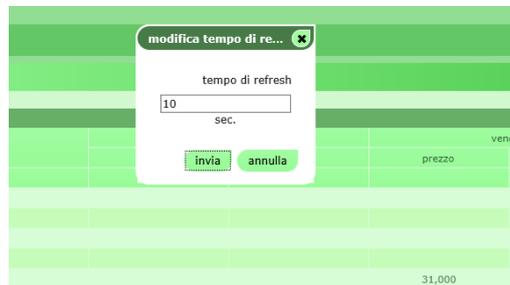


Figure 23: change of the refresh time

SUBMISSION OF BIDS/OFFERS

A user with **user** privileges (or with **MT-Gas user** or **MGP/MI-Gas user** privileges, but only for the applicable products) may submit bids/offers by interacting with the order book in various modes, which give rise to the opening of a pop-up window with all the fields needed to submit a bid/offer (Figure 24).

In the first mode, the user clicks on the  icon. He/she will get a pop-up window only with the pre-compiled fields pertaining to the selected mode and date of expiration.

You may click on the name of the product to open a pop-up window for entering a bid/offer for the selected product.

operatore	MyOperator2
tipo di offerta	acquisto
prodotto	MGP-2017-11-18
data mercato	15/11/2017
modalità	Normale
quantità	1
prezzo	17,000 €/MWh
senza indicazione di prezzo	<input type="checkbox"/>
fino a canc.	15/11/2017
controvalore	408,00 €
quantità MWh/giorno	24,00 MWh/g
volume	24,00 MWh

calcola

annulla firma e invia

Gme S.p.a

Figure 24: bid/offer entry pop-up window

Finally, you may click on the cell with the buying or selling price. This causes the opening of a pop-up window with the preselected product name and type of bid/offer (the type of bid/offer is opposite the one of the cell on which you have clicked; therefore, if you have clicked on the cell with the buying price, the preselected type of purchase will be sale).

The submitted amount shall be expressed in MW. If the cell already shows a price (i.e. there is already a bid/offer in the order book), the pop-up window captures the price and volume and shows them in the respective input fields. However, you may change the values before submitting the bid/offer.

Among the editable fields of the order entry pop-up window, you may note the one concerning the mode of entry of the bid/offer: **normal**, **execute and cancel** and **execute or cancel**. In the **execute and cancel** mode, the bid/offer is shown in the order book, marched for the matchable volume and then removed from the order book. If there are no bids/offers of opposite sign, the bid/offer will remain in the order book until it is matched in full or in part. After the matching, it is removed.

In the **execute or cancel** mode, the bid/offer is totally matched; if, upon the presentation in the order book, this is not possible, the bid/offer is removed.

The unlimited price checkbox makes it possible to match the bid/offer with all the bids/offers available in the order book (for the product under review) but only for the matchable volume.

The expiration date makes it possible to specify the market date until which the offer must be presented in the order book. After the date has expired, the bid/offer is automatically revoked.

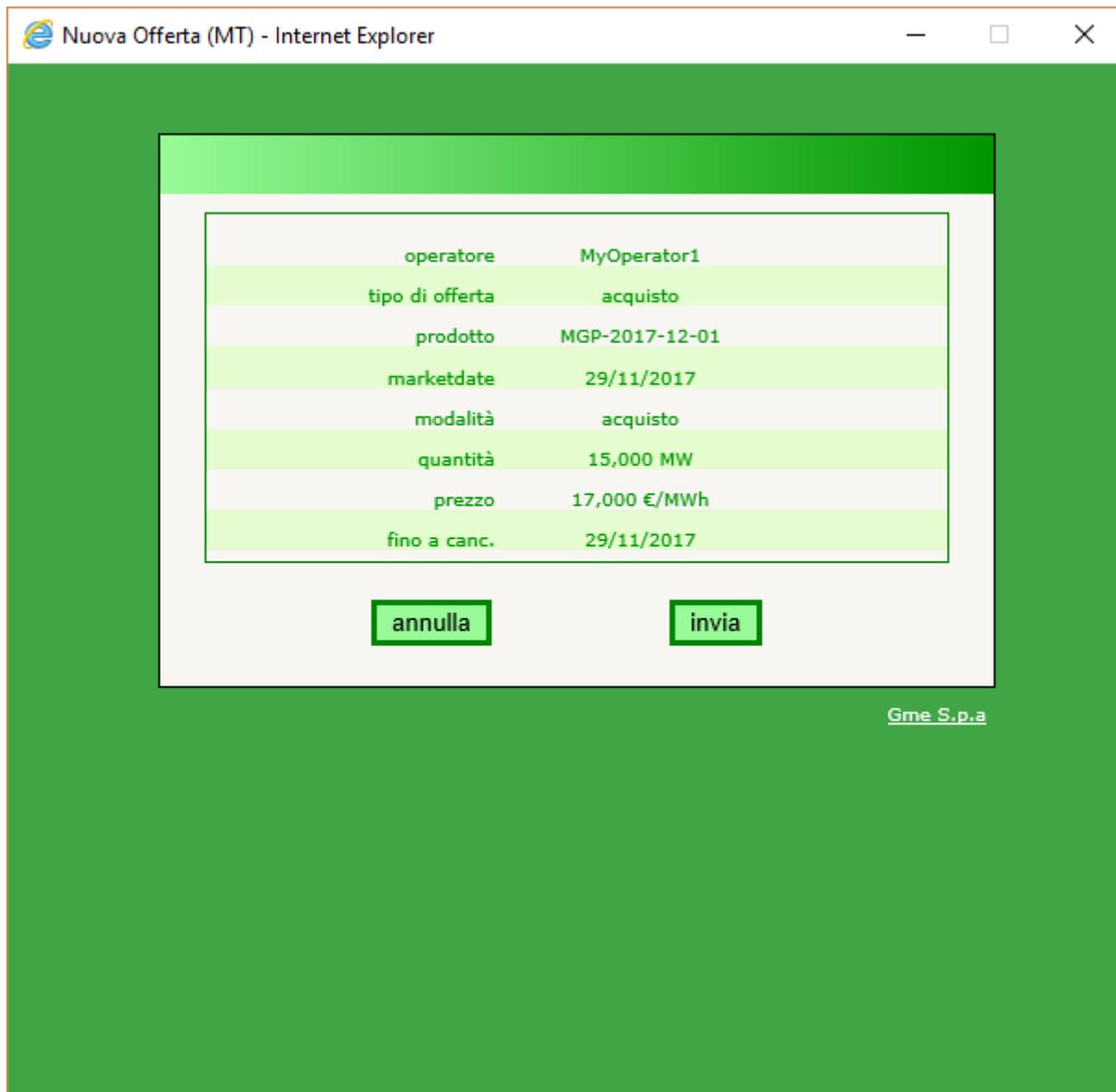


Figure 25: signature preview

By clicking on the **firma e invia** (send and sign) button, you may get a preview, which also represents the digitally signed document.

By clicking on **invia** (send), you will enter the bid/offer into the system and you may download the FA by clicking on the **Carica FA** (load FA) button.

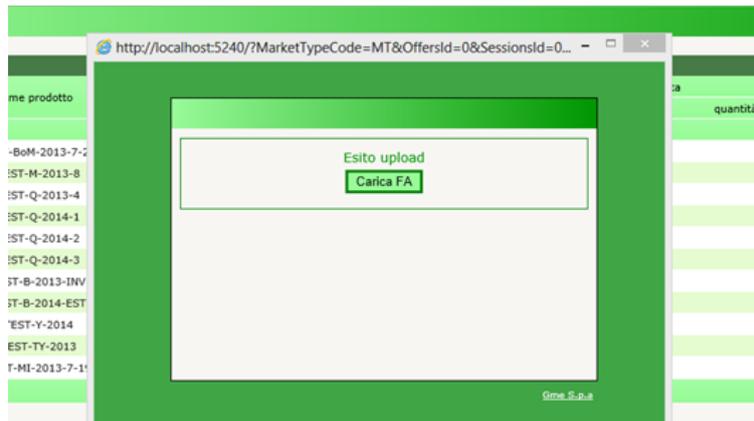


Figure 26: loading of the FA

After the system has processed the bid/offer, it will show the link of Figure 21. The data specified between brackets refer to the number of successful transactions. In the example, one of one, i.e. [1/1].

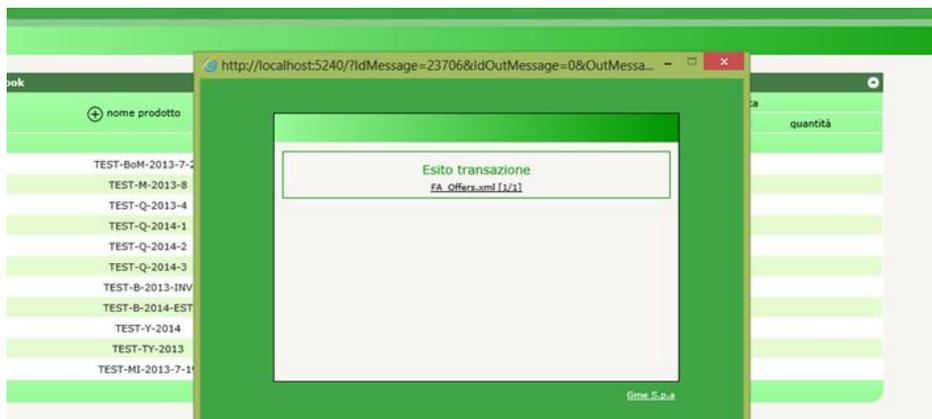


Figure 27: transaction result

CHANGE OF BIDS/OFFERS

You may change the details and status of one of your bids/offers in the period in which the market session is open for trading.

To do so, go to the [ordini aperti](#) (open orders) page shown in Figure 28.

ordini aperti **News - Cliccare qui per leggere la comunicazione agli Operatori!** Selezionare un operatore [redacted]

nome prodotto	q.tà MW	tipo	prezzo	controvalore	data	op.	stato	scadenza	contropart	modalità
<input type="checkbox"/> MGP-2017-11-30	11	acquisto	17,000	4488,000	29/11/2017 10	MyOperator1	Visibile	30/11/2017		Normale
<input type="checkbox"/> MI-2017-11-29	35	vendita	17,000	14280,000	29/11/2017 10	MyOperator1	Visibile	30/11/2017		Normale
<input type="checkbox"/> MGP-2017-12-01	15	acquisto	17,000	6120,000	29/11/2017 10	MyOperator1	Visibile	30/11/2017		Normale

tutti Pagina: 1 - N° totale pagine: 1 Righi per pagina: 200 Righe da 1 a 3 - N° di righe totali: 3

Figure 28: open orders page

The columns of the table show the product name, the submitted volume (expressed in MW), the type of bid/offer, the submitted price, the total value, the date of submission, the participant's code, the status of the bid/offer, its expiration, the possible OTC counterparty and the mode of submission (**normale**, **esegui e cancella**, **esegui o cancella** – normal, execute and cancel, execute or cancel).

operatore MyOperator2

tipo di offerta vendita

prodotto MGP-2017-11-16

data mercato 15/11/2017

modalità Normale

quantità 100 x MW

prezzo 17,000 €/MWh

senza indicazione di prezzo

Valida fino alla sessione del: 16/11/2017

NB: la sessione si chiude alle ore 3.00 del giorno successivo a quello sopra indicato

calcola

annulla firma e invia

Gme S.p.a

Figure 29: change of a bid/offer

Clicking on one row of the table will open a pop-up window similar to the bid/offer entry one. On this window, you may change the details of the bid/offer, e.g. its price and volume.

Conversely, by clicking on the checkbox in the first column (select the **tutti** (all) checkbox to select all the visible rows), you may change the status of the selected bids/offers, pushing the three buttons underlying the table. By pressing **Nascondi** (hide), you may temporarily hide a bid/offer, so that it will no longer be visible in the order book and thus no longer matchable.

The **Mostra** (display) button makes hidden bids/offers visible, so that they will reappear in the order book. The **Ritira** (withdraw) button will definitively revoke a bid/offer.

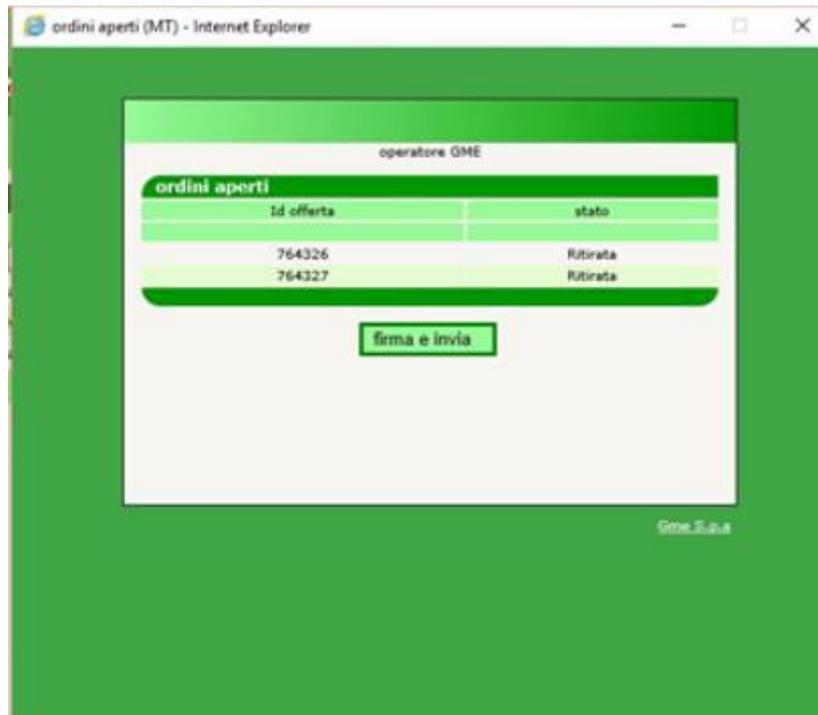


Figure 30: status change procedure

After pressing one of the three buttons, a pop-up window will show a summary of the transactions being entered. By clicking on **firma e invia** (sign and send), you may sign the form and then wait for the result, as shown in Figures 26 and 27.

After changing a bid/offer or its status, the bid/offer loses its time priority with respect to the other bids/offers already present in the order book. Therefore, price remaining equal, a bid/offer that has been changed or whose status has been changed will be the one with the lowest priority among those present in the order book upon the change.

ORDER BOOK DETAILS

Going back to the [order book](#), you will see the statistical details of the products and bids/offers that have been matched by clicking on the  icon and displaying the form of Figure 31.

dettagli book													
nome prodotto	MarketSic	giorni	prezzo di con	volume	Prezzo di rife	Prezzo massi	Prezzo minimi	LastMark	LastTime	LastPrice	LastQuantity	Change	
TEST-BoM-2013-7-23		30	32,000	0	0	0	0			0	0	▬	Grafico
TEST-M-2013-8		30	32,000	0	0	0	0			0	0	▬	Grafico
TEST-Q-2013-4		30	32,000	0	0	0	0			0	0	▬	Grafico
TEST-Q-2014-1		30	32,000	0	0	0	0			0	0	▬	Grafico
TEST-Q-2014-2	vendita	30	32,000	450	32,000	32,000	32,000	vendita	22/07/2013 0	32,000	15,000	▬	Grafico
TEST-Q-2014-3		30	32,000	0	0	0	0			0	0	▬	Grafico
TEST-B-2013-INV	acquisto	30	32,000	2400	29,500	33,000	25,000	acquisto	22/07/2013 0	33,000	45,000	⬆	Grafico
TEST-B-2014-EST		30	32,000	0	0	0	0			0	0	▬	Grafico
TEST-Y-2014		30	32,000	0	0	0	0			0	0	▬	Grafico
TEST-TY-2013		30	32,000	0	0	0	0			0	0	▬	Grafico
TEST-MI-2013-7-22		30	32,000	0	0	0	0			0	0	▬	Grafico

Righe da 1 a 11 - N° di righe totali:11

Figure 31: order book details

In the table, you may view data such as: name and other specific data of the product, volume traded (expressed in MWh/day), reference price, maximum and minimum price, date of latest matching, latest matched volume. You may check whether the reference price is increasing or decreasing and view a graph showing the matchings over time with the related prices and volumes (expressed in MWh/day).



Figure 32: graph of matchings

LIST OF SESSIONS

On the [sessione MT-GAS](#) (MT-GAS session) page, you may view the status of the market sessions (Figure 33), with details such as: market date, opening and closing time, session status and, if the session is closed, some details, such as the maximum and minimum price, the reference price and the volume traded (expressed in MWh/day).

sessione MT-Gas					
id sessione	data	apertura	chiusura	stato	
	22/07/1998 - 22/07/2013				
58114	22/07/2013	22/07/2014 07.00.00	22/07/2014 06.00.00	DEL	
58476	22/07/2013	22/07/2013 08.33.38	22/07/2013 13.00.00	APERTA	
57383	21/07/2013	21/07/2014 07.00.00	21/07/2014 06.00.00	DEL	
57748	21/07/2013	21/07/2013 07.00.00	21/07/2013 06.00.00	NEW	
58113	21/07/2013	21/07/2014 07.00.00	21/07/2014 06.00.00	DEL	
57382	20/07/2013	20/07/2014 07.00.00	20/07/2014 06.00.00	DEL	
57747	20/07/2013	20/07/2013 07.00.00	20/07/2013 06.00.00	NEW	
58112	20/07/2013	20/07/2014 07.00.00	20/07/2014 06.00.00	DEL	
57381	19/07/2013	19/07/2014 07.00.00	19/07/2014 06.00.00	DEL	
57745	19/07/2013	19/07/2013 08.45.00	19/07/2013 13.00.00	CHIUSA	Max price: 27,400 Ref price: 25,218
58111	19/07/2013	19/07/2014 07.00.00	19/07/2014 06.00.00	DEL	Min price: 25,000 Volume: 22,000
56285	18/07/2013	18/07/2013 16.54.00	18/07/2013 21.00.00	CHIUSA	Max price: 0 Ref price: 0
57380	18/07/2013	18/07/2014 07.00.00	18/07/2014 06.00.00	DEL	Min price: 0 Volume: 0

Figure 33: market sessions

The statuses of the sessions may be:

- DEL: cancelled.
- NEW: new.

- PRED: prepared for opening.
- OPEN: open for trading.
- SUSP: temporarily suspended (participants are not allowed to trade).
- TERM: ended (participants are not allowed to trade).
- CLOS: closed and confirmed.

DAILY ACTIVITY

The [attività giornaliera](#) (daily activity, Figure 34) page shows all the activity of a single participant in terms of movements in the order book: product name, submitted volume (expressed in MWh/day), type of bid/offer, submitted price, total value, participant's code, bid/offer status, timestamp, possible code of the OTC counterparty, bid/offer mode, user that has carried out the transaction, total volume (expressed in MWh/day), transaction carried out, unique id of the bid/offer, possible matching id and possible error code, if the bid/offer has been rejected (by placing the pointer of the mouse on the code, you will see a tooltip with a descriptive text of the error).

nome prodotto	q.10 MWh/g	tipo oper.	prezzo	controvale	Codice Operatore	stato	timestamp	controparte C	modalità	utente	volume MWh	operazione	id off.	id abb. res.	error
HGP-2017-1	24,000	acquisto	17,000	408,000	MyOperator2	scartata	15/11/2017 11:39:1		Normale	emanuele.mat	24	scartata	762366		
HGP-2017-1	24,000	acquisto	17,000	408,000	MyOperator2	sottomessa	15/11/2017 11:39:0		Normale	emanuele.mat	24	sottomessa	762366		
HGP-2017-1	24,000	vendita	17,000	408,000	MyOperator2	sottomessa	15/11/2017 11:27:3		Normale	emanuele.mat	24	residue	762365		
HGP-2017-1	24,000	vendita	17,000	408,000	MyOperator2	sottomessa	15/11/2017 11:27:2		Normale	emanuele.mat	24	abbonata	762365	87711	
HGP-2017-1	24,000	acquisto	17,000	408,000	MyOperator1	abbonata	15/11/2017 11:27:2		Normale	emanuele.mat	24	abbonata	762364	87711	
HGP-2017-1	48,000	vendita	17,000	816,000	MyOperator2	sottomessa	15/11/2017 11:27:2		Normale	emanuele.mat	48	sottomessa	762365		
HGP-2017-1	24,000	acquisto	17,000	408,000	MyOperator1	sottomessa	15/11/2017 11:28:4		Normale	emanuele.mat	24	sottomessa	762364		

Figure 34: daily activity

LIST OF BIDS/OFFERS

The [lista offerte](#) (bids/offers page, Figure 35) lists the bids/offers for the selected participant.

nome prodotto	q.10 MWh/g	tipo	prezzo	controvale	data	tip	stato	scadenza	controparte C	modalità	utente	pr. acc.	q.10 res. MWh/g	status
HGP-2017-11-16	24,000	acquisto	17,000	408,000	15/11/2017 1	MyOperator2	scartata	16/11/2017 00:		Normale	emanuele.m		24	non fittizio
HGP-2017-11-16	48,000	vendita	17,000	816,000	15/11/2017 1	MyOperator2	sottomessa	16/11/2017 00:		Normale	emanuele.m		24	non fittizio
HGP-2017-11-16	24,000	acquisto	17,000	408,000	15/11/2017 1	MyOperator1	abbonata	16/11/2017 00:		Normale	emanuele.m		0	non fittizio

Figure 35: list of bids/offers

The page shows details such as: product name, submitted volume (expressed in MWh/day), type of bid/offer, submitted price, value, date of submission, participant's code, bid/offer status, date of expiration, possible OTC counterparty, bid/offer mode, user that has managed the bid/offer, the possible accepted price, the remaining volume (expressed in MWh/day) and the specification of whether the bid/offer is real or fictitious. A real (non-fictitious) bid/offer is instead generated by the system when a product undergoes cascading and the participant has matched bids/offers for that product.

NET POSITION

The **posizione netta** (net position) page of Figure 36 displays the net positions (expressed in MWh/day) for matched orders pertaining to the products being traded.

The screenshot shows a web application interface for 'posizione netta'. At the top, there is a navigation bar with a 'News' link and a dropdown menu for 'Selezionare un operatore'. Below this is a table with the following columns: 'op.', 'ragione sociale', 'nome prodotto', 'Periodo di vendita', 'pos. netta MWh/g', and 'posizione netta fittizia MWh/g'. The table contains 12 rows of data, including entries for 'MyOp1', 'MyOp2', and 'MyOperator1/2' with various product codes and periods. At the bottom of the table, there is a pagination control showing 'Pagina: 1' and 'N° totale pagine: 1', and a status bar indicating 'Righe da 1 a 10 - N° di righe totali: 10'.

op.	ragione sociale	nome prodotto	Periodo di vendita	pos. netta MWh/g	posizione netta fittizia MWh/g
MyOp1	MyOp1	CY-2018	Annuale	-24,000	0,000
MyOp2	MyOp2	CY-2018	Annuale	24,000	0,000
MyOp1	MyOp1	M-2017-12	Mensile	-24,000	0,000
MyOp2	MyOp2	M-2017-12	Mensile	24,000	0,000
MyOperator1	MyOperator1	MGP-2017-11-16	Giornaliero di MGP	-24,000	0,000
MyOperator2	MyOperator2	MGP-2017-11-16	Giornaliero di MGP	24,000	0,000
MyOp1	MyOp1	Q-2018-01	Trimestrale	-24,000	0,000
MyOp2	MyOp2	Q-2018-01	Trimestrale	24,000	0,000
MyOp1	MyOp1	SS-2018	Semestrale	-24,000	0,000
MyOp2	MyOp2	SS-2018	Semestrale	24,000	0,000

Figure 36: net position

Products whose net position is zero are not displayed.

NET DELIVERY POSITION

The **posizioni consegnate** (net delivery position) page shows the net position (expressed in MWh/day) to be delivered to SNAM Rete Gas, only for the MGP and MI products. This net position considers both real matchings and those arising from the cascading mechanism.

The screenshot shows a web application interface for 'posizioni consegnate'. At the top, there is a navigation bar with a 'News' link and a dropdown menu for 'Selezionare un operatore'. Below this is a table with the following columns: 'SKeyKey', 'op.', 'ragione sociale', 'data flusso', 'DeliveredQuantity MWh/g', 'RefusedQuantity MWh/g', 'Confirmed', and 'nome prodotto'. The table contains 30 rows of data, including entries for various companies like 'ESTRA ENERGIE SRL', 'BURGO ENERGIA SRL', '2B ENERGIA S.P.A.', 'HERA TRADING S.R.L.', 'KOCH SUPPLY & TRADIP', 'ENET ENERGY SA', 'ENI S.P.A.', 'ENCI S.P.A.', 'METAENERGIA S.p.A.', 'GUNVOR International B', 'AXPO ITALIA SPA', 'DOLOMITI ENERGIA TR', 'YOUTRADE SPA', and 'WORLDENERGY S.A.' with various dates and quantities. At the bottom of the table, there is a pagination control showing 'Pagina: 1' and 'N° totale pagine: 1', and a status bar indicating 'Righe da 1 a 30 - N° di righe totali: 30'.

SKeyKey	op.	ragione sociale	data flusso	DeliveredQuantity MWh/g	RefusedQuantity MWh/g	Confirmed	nome prodotto
20161013M000260	00260	ESTRA ENERGIE SRL	13/10/2016	-480,000		<input type="checkbox"/>	MI-2016-10-13
20161013M00009	00109	BURGO ENERGIA SRL	13/10/2016	-26380,000		<input type="checkbox"/>	MI-2016-10-13
20161013M000041	00041	2B ENERGIA S.P.A.	13/10/2016	-480,000		<input type="checkbox"/>	MI-2016-10-13
20161013M000037	00037	HERA TRADING S.R.L.	13/10/2016	-2520,000		<input type="checkbox"/>	MI-2016-10-13
20161013M000173	00173	KOCH SUPPLY & TRADIP	13/10/2016	-30000,000		<input type="checkbox"/>	MI-2016-10-13
20161013M000170	00170	ENET ENERGY SA	13/10/2016	-2400,000		<input type="checkbox"/>	MI-2016-10-13
20161013M000018	00018	ENI S.P.A.	13/10/2016	-10000,000		<input type="checkbox"/>	MI-2016-10-13
20161013M000173	00173	KOCH SUPPLY & TRADIP	13/10/2016	-17600,000		<input type="checkbox"/>	MI-2016-10-13
20161013M000173	00173	KOCH SUPPLY & TRADIP	13/10/2016	-30000,000		<input type="checkbox"/>	MI-2016-10-13
20161013M000173	00173	KOCH SUPPLY & TRADIP	13/10/2016	-2620,000		<input type="checkbox"/>	MI-2016-10-13
20161013M000018	00018	ENI S.P.A.	13/10/2016	-9000,000		<input type="checkbox"/>	MI-2016-10-13
20161014M000260	00260	ESTRA ENERGIE SRL	14/10/2016	-2400,000		<input type="checkbox"/>	MI-2016-10-14
20161014M000109	00109	BURGO ENERGIA SRL	14/10/2016	2400,000		<input type="checkbox"/>	MI-2016-10-14
20161015MGP00019	00019	ENCI S.P.A.	15/10/2016	-3000,000		<input type="checkbox"/>	MGP-2016-10-15
20161015MGP00008	00008	EDISON S.P.A.	15/10/2016	3000,000		<input type="checkbox"/>	MGP-2016-10-15
20161016MGP00173	00173	KOCH SUPPLY & TRADIP	16/10/2016	3000,000		<input type="checkbox"/>	MGP-2016-10-16
20161016MGP00019	00019	ENCI S.P.A.	16/10/2016	-3000,000		<input type="checkbox"/>	MGP-2016-10-16
20161014M000130	00130	METAENERGIA S.p.A.	14/10/2016	70,000		<input type="checkbox"/>	MI-2016-10-14
20161014M000153	00153	GUNVOR International B	14/10/2016	-70,000		<input type="checkbox"/>	MI-2016-10-14
20161014M000009	00009	AXPO ITALIA SPA	14/10/2016	-6412,000		<input type="checkbox"/>	MI-2016-10-14
20161014M000047	00047	DOLOMITI ENERGIA TR	14/10/2016	-1440,000		<input type="checkbox"/>	MI-2016-10-14
20161014M000173	00173	KOCH SUPPLY & TRADIP	14/10/2016	-2880,000		<input type="checkbox"/>	MI-2016-10-14
20161014M000037	00037	HERA TRADING S.R.L.	14/10/2016	-2400,000		<input type="checkbox"/>	MI-2016-10-14
20161014M000126	00126	ENGIE ITALIA SPA	14/10/2016	-3000,000		<input type="checkbox"/>	MI-2016-10-14
20161014M000019	00019	ENCI S.P.A.	14/10/2016	-2400,000		<input type="checkbox"/>	MI-2016-10-14
20161014M000110	00110	YOUTRADE SPA	14/10/2016	-2700,000		<input type="checkbox"/>	MI-2016-10-14
20161014M000152	00152	WORLDENERGY S.A.	14/10/2016	-3000,000		<input type="checkbox"/>	MI-2016-10-14

Figure 37: net delivery position

The displayed data are as follows: unique code of the net position delivered to SNAM Rete Gas, participant's code, participant's registered name, flow date pertaining to the delivery, volume delivered (expressed in MWh/day), possible volume rejected by SNAM Rete Gas (expressed in MWh/day), specification of whether SNAM Rete Gas has already confirmed or not confirmed the net position delivered and the name of the reference product.

GUARANTEE MANAGEMENT

On the [gestione garanzie](#) (guarantee management) page, you may view the situation of the financial guarantees relating to the forward gas market (MT) for the participants that you represent.

The first report shows data such as the code and registered name of the participant, the initial amount of the financial guarantee and the last date of payment and the last paid date.

By clicking on [?](#) you will open the underlying report, with details about the financial guarantees and the credit/debit adjustments.

The screenshot displays the 'Gestione Garanzie' interface. At the top, there is a table with columns: op., ragione sociale, garanzia prestata, ultima data in pagamento, ultima data pagata, and garanzia disponibile. The first row shows a participant with a guarantee of 50,000, last payment on 08/12/2019, last paid on 17/11/2019, and a remaining guarantee of 44,500. A question mark icon is next to the 50,000 value. Below this table, it says 'N° di righe totali:1'. Underneath, it specifies 'dettagli operatore : 2B ENERGIA S.P.A.'. To the right, there is a checkbox labeled 'visualizza garanzie chiuse'. Below that is the 'mkplDetail' table with columns: AccountActivityId, Descrizione movim, Quantità iniziale, Tipologia Garanzia, Mercato, validità, Note, Data di flusso, and Chiuso. The table contains three rows: 783384 (Financial Guarantee, 50,000, Deposito, MT-GAS, tutte le garanzie, 18/12/2019), 783385 (Adjustment, -500, MT-GAS, 18/12/2019), and 783386 (Adjustment, 7,000, MT-GAS, 17/12/2019). At the bottom, there are pagination controls: 'Pagina: 1 - N° totale pagine: 1' and 'Righe per pagina' set to 110. A 'Chiudi dettagli' button is at the bottom center.

Figure 38: deposit management

By checking the **show closed guarantees** box, you may view possible closed financial guarantees and credit/debit adjustments.

SUMMARY OF GUARANTEES

On the [summary of guarantees](#) page, you may view the status of the financial guarantees intended for the forward market (MT) of the participants that the user represents (Figure 39). For each participant, the page shows the code, the registered name, the original amount of the guarantee and the financial exposure.

The screenshot displays the 'sommarrio garanzie' interface. It features a table with columns: op., ragione sociale, garanzia prestata, esposizione, and dettagli. The first row shows a participant with a guarantee of 50,000 and an exposure of -2,752,832. Below the table, it says 'N° di righe totali:1'.

Figure 39: summary of MT guarantees

If, instead, you click on **dettagli** (details), you will get a pop-up window with the details of the financial guarantee formulas, where you may identify all the components and the related amount (Figure 40).

sommario garanzie				
op. ↕	regione sociale	garanzia prestata	esposizione	
		50.000	-2.752,832	dettagli

dettagli garanzie		totali: 1
dettagli operatore : ██████████ $C = [(\Sigma F + \Sigma D) \cdot (1 - MM)] + E$ $E = \Sigma E_s \forall E_s < 0$		
dettagli		
componente	valore	
C	42.247,168	
ΣF	0	
ΣD	50.000	
MM	0,1	
E	-2.752,832	
E _s (08/01/2020)	-2.752,832	

Chiudi

Figure 40: details of MT financial guarantee

The tick **visualizza garanzie chiuse** (displays closed guarantees) allows you to view any closed deposits and credit/debit adjustments.

SUMMARY OF MP GUARANTEES

The page **“Sommaro garanzie MP”** (Summary of MP Guarantees) page allows you to view the status of the financial guarantees for the MP spot market of participants that you represent (41). For each participant selected from the drop-down menu there are:

- in the section **“Sommaro garanzie MP”** (Summary of MP Guarantees) the initial guarantee (the amount of valid guarantees registered on the Netting platform, reduced by the Maintenance Margin of 3%); Guarantee Capacity (the difference between Initial Guarantee and Exposure); the Exposure (the exposure determined by all the positions held on all the platforms whose guarantee pertains to Netting);
- in the section **“Dettaglio Garanzie”** (Guarantees Detail) all the deposits and bank guarantees relating to the centralized Netting guarantee system and the credit and debit adjustment of the MP spot gas market;
- in the section **“Esposizione per data di settelement”** (Exposure by Settlement Date), all exposures divided by settlement date determined by all the positions held on all the platforms whose guarantee pertains to Netting, and the valid credits of the MP spot gas market only.

Sommarrio Garanzie MP	
Descrizione	Valore
Garanzia Iniziale	145.500
Capienza Garanzia	144.264,24
Esposizione	-1.235,76
Sommarrio Garanzie al 18/12/2019 12:31:47	

Dettaglio Garanzie				
Tipo	Inizio Validità	Fine Validità	Importo	Importo Residuo
Deposito	01/01/0001	31/12/9999	97.000	97.000
Fidejussione	18/12/2018	31/12/2018	970	970
Credito	16/12/2019	05/01/2020	4.800	4.800
Fidejussione	18/12/2019	31/12/2050	48.500	47.264,24
Dettaglio Garanzie al 18/12/2019 12:31:47				

Esposizione per data di Settlement		
Data di Settlement	Esposizione	
08/01/2020	3.564,24	dettagli
Esposizione per Data di Settlement al 18/12/2019 12:31:47		

Figure 41: summary of MP guarantees.

By clicking on “**dettagli**” (details), you can view a popup containing the details of the financial guarantee formulas, in which all the components and their amount can be viewed (Figure 40).

Sommarrio Garanzie MP	
Descrizione	Valore
Garanzia Iniziale	145.500
Capienza Garanzia	
Esposizione	
Sommarrio	

Dettaglio Garanzie				
Tipo	Inizio Validità	Fine Validità	Importo	Importo Residuo
Deposito	01/01/0001			
Fidejussione	18/12/2018			
Credito	16/12/2019			
Fidejussione	18/12/2019			
Dettaglio				

Esposizione per data di Settlement		
Data di Settlement	Esposizione	
08/01/2020	3.564,24	dettagli
Esposizione per Data di Settlement al 18/12/2019 12:31:47		

dettagli Esposizione

Data di Settlement : 08/01/2020

dettagli	
Data di flusso	Esposizione
22/12/2019	2.400
21/12/2019	2.400
18/12/2019	-1.235,76

[Chiudi](#)

Figure 42: detail of the MP financial guarantee.

GUARANTEE PARAMETERS

You may display the main parameters for the calculation of the financial guarantee, such as α and γ or the daily check prices.

Figure 41 exhibits the [parametri di garanzia](#) (guarantee parameters) page; you may refine this report by showing a single date range or a particular type of parameter.

Parametri di garanzia			
FlowDate	Name	Value	
	tutti		
01/07/2015	Gamma	0,430	
01/06/2015	Gamma	0,430	
01/05/2015	Gamma	0,430	
01/04/2015	Gamma	0,430	
01/03/2015	Gamma	0,430	
01/02/2015	Gamma	0,430	
01/01/2015	Gamma	0,430	
01/12/2014	Gamma	0,430	
01/11/2014	Gamma	0,430	
01/10/2014	Gamma	0,430	
01/09/2014	Gamma	0,430	
01/08/2014	Gamma	0,430	
01/07/2014	Gamma	0,430	
01/06/2014	Gamma	0,430	
01/05/2014	Gamma	0,430	
01/04/2014	Gamma	0,430	
01/03/2014	Gamma	0,430	
01/02/2014	Gamma	0,430	
01/01/2014	Gamma	0,430	
01/12/2013	Gamma	0,430	
01/11/2013	Gamma	0,430	
01/10/2013	Gamma	0,430	
01/09/2013	Gamma	0,430	
01/08/2013	Gamma	0,430	
01/07/2013	Gamma	0,430	
03/07/2013	Alfa	0,130	
03/07/2013	prezzo di controllo	32,000	
04/07/2013	Alfa	0,130	
04/07/2013	prezzo di controllo	32,000	

Figure 43: guarantee parameters

XML FILE UPLOAD

Through the [upload](#) (upload) page, you may directly upload the xml file for submitting/changing bids/offers or changing their status (Figure 42).

Figure 44: xml file upload

You must write the xml file with an appropriate editor and then upload it by selecting the file, signing its content and submitting the transaction.

LIST OF MESSAGES

Each action that you make in the M-GAS system through the above-described web pages will result into an xml file, which is stored into the database and then processed by the platform. Each action stored into the system will produce a result (called **Functional Acknowledgment, FA**); whatever the outcome of the action made, the FA will be a file in xml format.

The [lista messaggi](#) (list of messages) provides all the xml transactions made and the related outcomes.

Id messaggio	Id messaggio out	Contenuto	Oggetto del messaggio	Stato del messaggio	op.	codice utente	Nome file	Timestamp	Transazione	elab. time
23771	64718	Visualizza	Offers	OUT	00123GT	root	Offers.xml	22/07/2013 02.43.28	1 \ 1	00.01
23742	64685	Visualizza	Offers	OUT	00123GT	demo.user	Offers.xml	22/07/2013 10.54.29	1 \ 1	00.00
	64683		BN	OUT	00123GT		BN_b7cf4d51551b4e3a90b	22/07/2013 10.54.29		
23740	64681	Visualizza	Offers	OUT	00123GT	demo.user	Offers.xml	22/07/2013 09.58.48	1 \ 1	00.00
	64676		BN	OUT	00123GT		BN_48b48f455196402bact	22/07/2013 09.21.45		
23735	64674	Visualizza	Offers	OUT	00123GT	demo.user	Offers.xml	22/07/2013 09.20.36	1 \ 1	00.00
	64672		BN	OUT	00123GT		BN_ccd5d5f0956a4120b11	22/07/2013 09.20.36		
23732	64669	Visualizza	Offers	OUT	00123GT	demo.user	Offers.xml	22/07/2013 09.19.15	1 \ 1	00.00
23731	64668	Visualizza	Offers	OUT	00123GT	demo.user	Offers.xml	22/07/2013 09.19.02	1 \ 1	00.00
	64666		BN	OUT	00123GT		BN_34e3be41712347d1af	22/07/2013 09.19.02		
23730	64665	Visualizza	Offers	OUT	00123GT	demo.user	Offers.xml	22/07/2013 09.18.44	1 \ 1	00.00
	64663		BN	OUT	00123GT		BN_dab1f95678a84de48a2	22/07/2013 09.18.44		

Figure 45: list of messages

The page is organised as follows: the first column shows the unique id assigned to the input xml message, produced through your interaction with the portal pages. By clicking on the number representing the id, you may download the xml file showing all the input parameters that have originated the transaction.

Likewise, the second column shows the id of the transaction outcome file. By clicking on the number, you may download the FA in xml format. Conversely, the third column shows the link to the digitally signed content, i.e. the portion of HTML code representing the preview of each action, which is presented immediately before the action.

Then, you will see the object of the message and, above all, its status; the status may be as follows:

- **IN**: message submitted and stored but not yet processed.
- **ERR**: message incorrectly formed or with incorrect content.
- **RUN**: message being processed.
- **OUT**: message processed (successfully or unsuccessfully).

The remaining columns show such data as the participant and user that have submitted the transaction, the name of the xml file, the date and time of submission, the number of successfully processed transactions and the processing time in minutes and seconds.

Among the page filters, you will find a checkbox called **mark** (Figure 44). If you select the box, the system will mark the outcome file as downloaded. This action will have an impact on the download of the file through the web service, because the system will ignore the already downloaded files and return only the ones that you have not yet examined. If you download an xml file from the interface with the **mark** checkbox selected, you will not be able to download the same file through the web service.

data inizio : 22/07/2013 data fine : 23/07/2013 Mark:

Id messaggio	Id messaggio out	Contenuto	Oggetto del messaggio	Stato del messaggio	op.	codice utente	Nome file	Timestamp	Transazione	elab. time
23771	64718	Visualizza	Offers	OUT	00123GT	root	Offers.xml	22/07/2013 02.43.28	1 \ 1	00.01
23742	64685	Visualizza	Offers	OUT	00123GT	demo.user	Offers.xml	22/07/2013 10.54.29	1 \ 1	00.00

Figure 46: filters of the list of messages

You have seen that any action (xml input transaction) corresponds to an xml outcome file (FA). In the [lista messaggi](#) (list of messages), you may also view outcome files different from FAs, which do not correspond to any input file.

Figure 42 (third row) shows a **Bid Notification (BN)** file with the outcome of the matching of one of the participant's bids/offers.

Another file of this type is the **Delivery Notification (DN)**; this file is generated upon confirmation of the delivery to SNAM Rete Gas and contains the outcome of the delivery, the possible undelivered volume and the reason for the failed delivery.

THE FEATURES OFFERED BY THE PORTAL MGS

THE HOMEPAGE

Figure shows the main page of the portal. Here four main always available areas are numbered whatever the User open page.

USER DETAILS AND LOGOUT

The area **(1)** shows the authenticated User name and his/her role (**User** or **viewer**). By clicking **Logout**, you can leave the portal, closing the session. Now the User must re-authenticate if he/she wants to access the portal.



Figure 7: the main page of the portal

THE ALLOWED PARTICIPANTS

(2) displays a drop down menu containing all Participants authorized to operate on the MGS, the current User's competence. The operations that the User performs on the portal, such as the submission of offers/bids, are associated with the selected Participant in that menu.

THE MENU

Section **(3)** shows the menu that contains the links to all the pages that the User can achieve. There is an **information** section where all the pages bearing information useful to the Users are grouped. **MGS** section contains the pages for the submission and monitoring of the offers/bids, status and results of the market sessions and pages showing the management of deposits and the summary of the participants' guarantees.

Finally, the **messages** section shows the pages to upload xml file and the list of input and output messages of competence of those participants associated to the User.

THE MULTILINGUAL SUPPORT

Last section, which is the **(4)**, contains the two [eng](#) and [ita](#) links, where the User can select his/her default language. The content of the pages will be translated on the basis of the selected language. Besides the translation of text parts, changing the language also involves displaying the date in Italian (it-IT) or English (en-GB) format and the decimal separator for the figures: the comma (",") for Italian and the dot (".") for English.

FILTERS AND REPORTS

Before you scroll through the pages of the portal, it is necessary to explain a common feature to all the pages that show a report.



Figure 48: filters and reports in Excel.

Each report page has a filters section that usually is not shown when the page is opened. To show it, you must click the link ([Show filters...](#)) on the right. Conversely, to hide it, click ([Hide filters ...](#)). The one that appears is the filter section in which, in general, you can enter values that aim to restrict the number of results provided by the underlying report. To recharge the report taking account of appropriate filters, it is necessary to click [refresh](#), at the top left..

Finally, you can export the report to Excel format by clicking [export](#). After clicking, the page asks you to save the report in Excel format, bringing all the results, obviously without pagination of them like it happens on the web page.

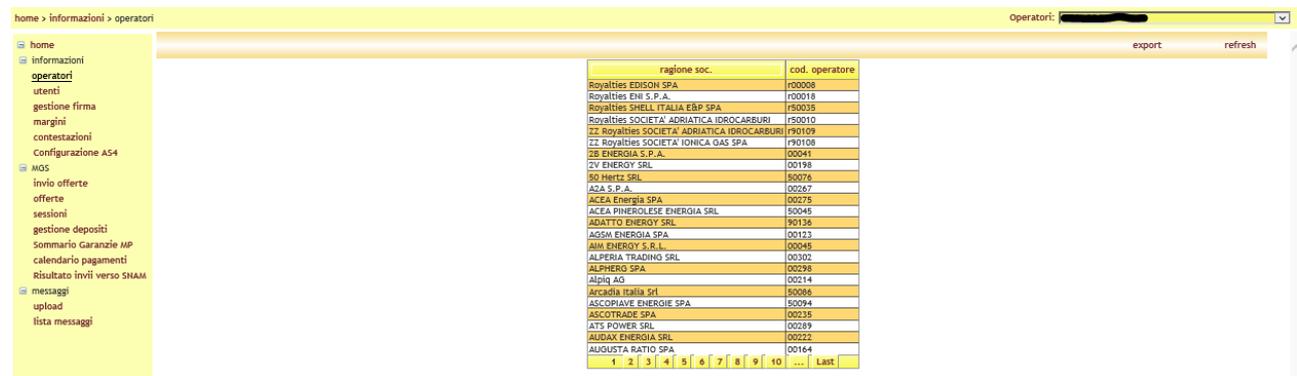


Figure 49: the list of Participants entitled to the platform.

THE PAGE OF PARTICIPANTS

[Participants](#) page shows the list of Participants authorized to operate on the MGS. This page is read-only and contains information regarding the business name and the Participant code.

By clicking [export](#), you can export the complete list of Participants to Excel.

THE USERS PAGE

The [Users](#) is another read-only page that allows you to view all the Users entitled to act on behalf of the Participant selected in the dropdown menu at the top right.

home > informazioni > utenti

Operatori: [redacted]

(Mostra filtri...)

codice utente	nome	cognome	Descrizione ruolo	certificato	cert. di firma	operatori	abilitato
alessandra.tocchetti	alessandra	tocchetti	User	Infocert auth ACT	Infocert sign ACT	2B ENERGIA S.P.A.	✓
Andrea.Nonna	Andrea	Nonna	User	Infocert auth ACT	Infocert sign ACT	2B ENERGIA S.P.A.	✓
Andrea.Nonna37	Andrea	Nonna	User	ACT	ACT	2B ENERGIA S.P.A.	✓
Andrea.Nonna43	Andrea	Nonna	User	Infocert auth ACT	Infocert sign ACT	2B ENERGIA S.P.A.	✓
Antonio.Graziano	Antonio	Graziano	User	ACT	ACT	2B ENERGIA S.P.A.	✓
Antonio.Graziano5	Antonio	Graziano	User	ACT	ACT	2B ENERGIA S.P.A.	✓
Antonio.Graziano53	Antonio	Graziano	User	Infocert auth ACT	ACT	2B ENERGIA S.P.A.	✓
ermanno.baraggia	ermanno	baraggia	User	Infocert auth ACT	Infocert sign ACT	2B ENERGIA S.P.A.	✓
silviapanicci	silviapanicci	silviapanicci	User			2B ENERGIA S.P.A.	✓
user	user	user	User			2B ENERGIA S.P.A.	✓

export refresh

Figure 50: the Users page.

The information in the table shows, respectively, the Username, the name and surname of the User, the User's role, the information on the authentication and signature certificate, the Participant for which they are authorized to operate (i.e. the current Participant) and an indication of whether the User is enabled or not. Clicking on ([Show filters...](#)), you can access the area of the page containing the filters. In the event of the User list, there is only one **Search** field where you can enter a text which will be searched in the User code, name and surname.

ADDING A NEW SIGNATURE CERTIFICATE

Through the signature management link, you can access the page that offers users the possibility to manage their signature certificate. If the user does not have a signature certificate, the page looks like in Figure 11; the link **"Aggiungi"** (Add) allows the user to add a certificate.

Figure 49: the user does not have a signing certificate. The page allows you to add one.

By clicking on the link **"Aggiungi"** (Add), you can choose, among the certificates installed on the user's computer, what you wish to use to sign the transactions being uploaded on the system, as shown in Figure 12.

home > informazioni > gestione firma

Operatori: [redacted]

Gestione del certificato di firma.

Nessun certificato di firma configurato

Aggiungi

Maggiori informazioni sul componente di firma

Scegliere il certificato di firma - Choose the signer certificate

Subject	Issuer
test ciccio	AnubiPEC S.p.A. NG CA 3

Cancel OK

Figure 11: insertion of a new certificate.

Once the certificate is selected, its details are shown on the page. At this point, the user must confirm the insertion of the certificate by clicking on the link “Salva” (Save) link.

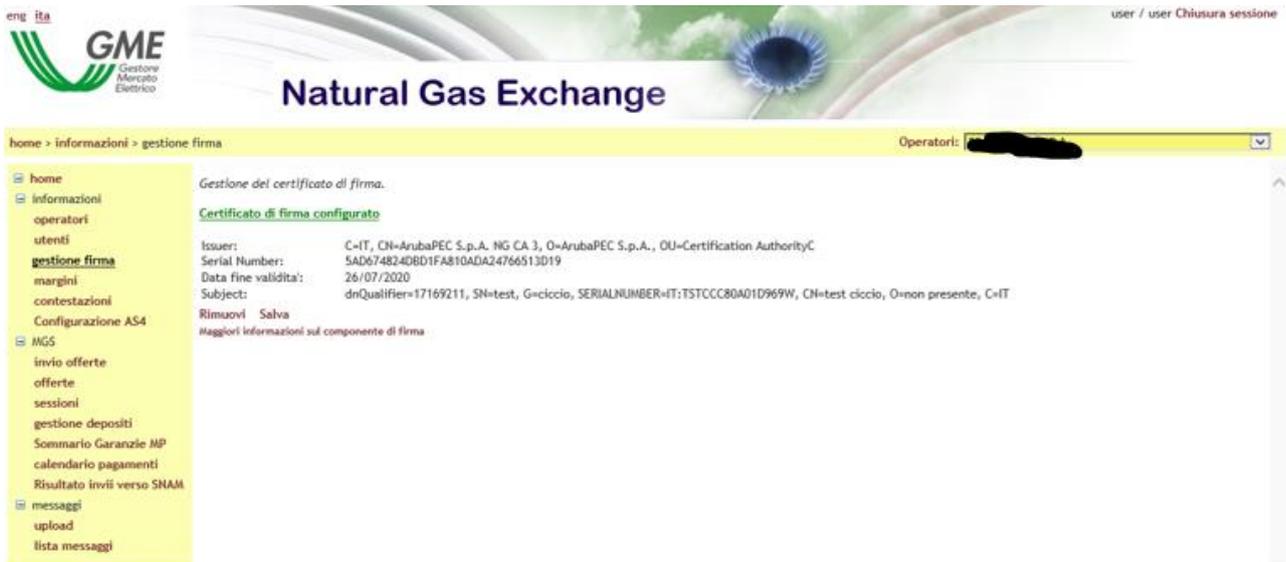


Figure 52: the details of the certificate are being inserted.

Once the certificate has been inserted, before it can be used in transactions, it must be authorized by the portal administrator.

MARGINS

Continuing with the series of pages, you find the [report on margins](#). It's a report showing the **maximum down margins** (purchase) and **the up ones** (sales) for all Participants associated to the User. These margins are reported by SNAM Rete Gas. Margins divided by **Storage Participant** and **flow data** are displayed.

The screenshot shows the 'Natural Gas Exchange' website interface for the 'report on margins'. The top navigation bar includes 'home > informazioni > margini' and 'Operatori: [redacted]'. The left sidebar contains a menu with options like 'home', 'informazioni operatori', 'margini', and 'MGS'. The main content area displays a table with the following columns:

op.	data flusso	min vendita MWh	max vendita MWh	min acquisto MWh	max acquisto MWh	qtà presentata vendita MWh	qtà presentata acquisto MWh	op. stoccaggio
00041	19/12/2018	0,000	149.323,106	0,000	295.565,207	0,000	0,000	00303
00041	20/12/2018	0,000	141.511,464	0,000	303.676,544	0,000	0,000	00303
00041	21/12/2018	0,000	137.905,006	0,000	307.108,169	0,000	0,000	00303
00041	22/12/2018	0,000	134.789,651	0,000	310.248,496	0,000	0,000	00303
00041	23/12/2018	0,000	133.095,071	0,000	311.918,104	0,000	0,000	00303
00041	24/12/2018	0,000	131.787,286	0,000	313.570,583	0,000	0,000	00303
00041	25/12/2018	0,000	130.242,724	0,000	315.095,145	0,000	0,000	00303
00041	26/12/2018	0,000	125.961,402	0,000	318.926,911	0,000	0,000	00303
00041	27/12/2018	0,000	117.969,563	0,000	327.068,284	0,000	0,000	00303
00041	28/12/2018	0,000	111.027,890	0,000	334.010,257	0,000	0,000	00303
00041	29/12/2018	0,000	106.328,280	0,000	339.009,589	0,000	0,000	00303
00041	30/12/2018	0,000	101.786,608	0,000	343.551,261	0,000	0,000	00303
00041	31/12/2018	0,000	98.783,202	0,000	348.630,378	0,000	0,000	00303
00041	01/01/2019	0,000	97.408,014	0,000	346.783,771	0,000	0,000	00303
00041	02/01/2019	0,000	94.199,886	0,000	349.954,899	0,000	0,000	00303
00041	03/01/2019	0,000	89.473,954	0,000	355.850,331	0,000	0,000	00303
00041	04/01/2019	0,000	82.748,022	0,000	361.406,763	0,000	0,000	00303
00041	05/01/2019	0,000	77.022,090	0,000	367.132,695	0,000	0,000	00303
00041	06/01/2019	0,000	71.296,158	0,000	372.858,627	0,000	0,000	00303
00041	07/01/2019	0,000	65.570,226	0,000	378.584,559	0,000	0,000	00303
00041	08/01/2019	0,000	59.844,294	0,000	384.310,491	0,000	0,000	00303
00041	09/01/2019	0,000	54.118,362	0,000	390.036,423	0,000	0,000	00303
00041	10/01/2019	0,000	48.392,430	0,000	395.762,355	0,000	0,000	00303
00041	11/01/2019	0,000	42.666,498	0,000	401.488,287	0,000	0,000	00303

Figure 53: the report on margins.

Together with the margins, also the information on **the volumes submitted for sale and purchase** is displayed. Quantities are colored differently depending on whether or not they violated the margins: black if it is within the maximum margin, red if it exceeds the maximum margin.

Figure shows the filters with which you can filter the table below. You can specify a range of dates, so if you specify a period comprising more days (i.e. more flow dates), the table will consist of several items: a row for each **<date, Participant, storage Participant>**. If you view a flow date that involves no margins, you will see a blank line, possibly with the volumes already submitted by the Participant. You can also filter by the storage Participant.

As soon as the system receives the information on margins for a given flow date, it is made available on this report and consequently the volumes already submitted are marked with the appropriate color.

COMPLAINTS

Figure shows the page of the complaints through which you can monitor the progress of the claims. Any complaint can be inserted and then updated by associating new messages. You can see the list of all the complaints made by Participant, in particular: The title of the complaint, the state, the company code (Participant) which the complaint relates, the User who submitted the complaint, the timestamp indicating the time of submission and then a link relating to the possibility of adding a new message to the complaint already open.

The screenshot shows the GME (Gestore Mercato Elettrico) website interface. The main header includes the GME logo and the text "Natural Gas Exchange". A navigation menu on the left lists various sections like "home", "informazioni", "operatori", "utenti", "gestione firma", "margini", "contestazioni", "Configurazione AS4", "MGS", "invio offerte", "offerte", "sessioni", "gestione depositi", "Sommario Garanzie MP", "calendario pagamenti", "Risultato invii verso SNAM", "messaggi", "upload", and "lista messaggi". The main content area displays a table titled "contestazioni" with the following data:

titolo	stato	cod. operatore	utente	timestamp	Piattaforma	
contestazione del 19/12/2019	in attesa	00041	user	19/12/2019 10:49:28	Mercati di bilanciamento	nuovo messaggio

Figure 54: complaint

Selecting the 'Open complaint' link, you can then open the window to add a complaint, as shown in Figure 51.

The screenshot shows a web browser window with the URL "http://meallinone2/MBGasWebSite/Page...". The page title is "invio di un nuovo messaggio:". The form contains the following fields and options:

- operatore: 0123GD
- utente: test
- titolo:
- testo:
- annulla [anteprima](#)

Figure 55: entering complaints

SUBMISSION OF BIDS/OFFERS

Let us now examine the pages of the [MGS](#) section. The most important page is undoubtedly the [offers/bids submission](#) page. Every transaction made through this page refers to the Participant selected in the upper right.

eng ita **GME** Consorzio Mercato Elettrico user / user Chiusura sessione

Natural Gas Exchange

home > MGS > invio offerte Operatori: [redacted]

Mercato: [mercato @ bit] Data di Flusso: [19/12/2019]

Codice Operatore: []

Ripulisci form Carica offerte inoltrate Firma ed invia

STOCCAGGI GAS ITALIA SPA (vendita) STOCCAGGI GAS ITALIA SPA (acquisto) Edison Stoccaggio (vendita) Edison Stoccaggio (acquisto)

quantità minima: - MWh/Giorno quantità massima: - MWh/Giorno quantità rimanente: - MWh/Giorno

Svuota tab Sostituzione carica offerte

Tipo di offerta	Prezzo [€/MWh]	Quantità [MWh/Giorno]
[Vendita]	10.5	100
Tipo di offerta	Prezzo [€/MWh]	Quantità [MWh/Giorno]
[Vendita]	20.780	10.8
Tipo di offerta	Prezzo [€/MWh]	Quantità [MWh/Giorno]
[Vendita]	5.870	1.870
Tipo di offerta	Prezzo [€/MWh]	Quantità [MWh/Giorno]
[Vendita]		
Tipo di offerta	Prezzo [€/MWh]	Quantità [MWh/Giorno]
[Vendita]		
Tipo di offerta	Prezzo [€/MWh]	Quantità [MWh/Giorno]
[Vendita]		
Tipo di offerta	Prezzo [€/MWh]	Quantità [MWh/Giorno]
[Vendita]		
Tipo di offerta	Prezzo [€/MWh]	Quantità [MWh/Giorno]
[Vendita]		
Tipo di offerta	Prezzo [€/MWh]	Quantità [MWh/Giorno]
[Vendita]		

Firma ed invia

Figure 56: the offers/bids submission page.

The page is organized as follows: at the top there are two pull-down menus: one for the market (currently only the MBS) and the most significant drop-down menu with the flow dates corresponding to the open market sessions. After selecting a date of flow, all the transactions available on the page will refer to that date of flow.

The **Participant code** field allows the Participant to designate a text note which will be applied to all offers/bids submitted to the system.

Further down there are two tabs. They refer to the storage Participant and further distinguish up (sales) and down (sale) offers/bids. In general for each Storage Participant enabled, there will be a pair of tabs.

Just above the tab there are three links:

- [Clean up form](#): you can clean up the text boxes of all tabs, deleting any numerical values that are displayed.
- [Upload submitted offers/bids](#): it allows you to view in the text boxes the offers/bids already submitted by that flow date.
- [Sign and send](#): it allows you to proceed with the bid/offer submission, as shown later.

Each tab contains some useful information: the information is the **minimum and maximum total volume** allowed for that storage Participant and type of offer/bid (sale or purchase). These volumes are in practice the margins reported by SNAM Rete Gas. As for the report on margins, this information is made visible immediately on receipt of the communication with the margins for each Participant. Next to these values, it is also displayed the **remaining volume**, in accordance with the maximum margin.

Further down, it's displayed the [empty tab](#) link. It is used to clean up the text fields of the tab only, leaving intact those of the other tab. The **Replace** checkbox indicates that the first offer/bid specified below will replace the first offer/bid that is already on the system (with respect to the tab context: the storage Participant and type of offer/bid).

[Load offers/bids](#) displays the bids/offers already submitted, but only for that tab. The other tabs remain unchanged.

Finally we see the ten bidding steps, each of which must specify the price and volume. It is not mandatory to specify each step, therefore, for each tab, you can also specify a single step.

By clicking [Sign and Send](#), the procedure for the signing and submission of bids/offers starts. If you specify offers/bids with prices that exceed the maximum or minimum threshold, it appears a page that requires further confirmation.

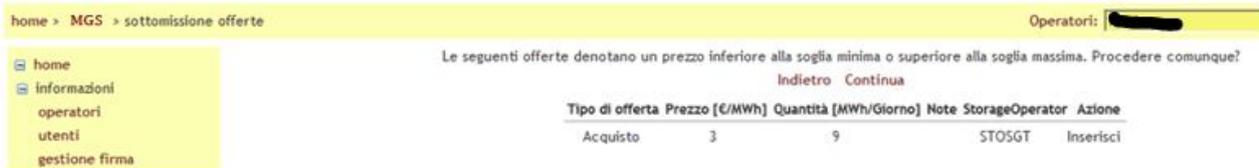


Figure 57: prompting for a very low price.

Figure shows an example of a purchase offer/bid at a price equal to **3 €/MWh**. This page requires confirmation ([next](#)) or allows to go [back](#) and make corrections. When you click [continue](#), you finally get to the offers/bids signature and submission page.

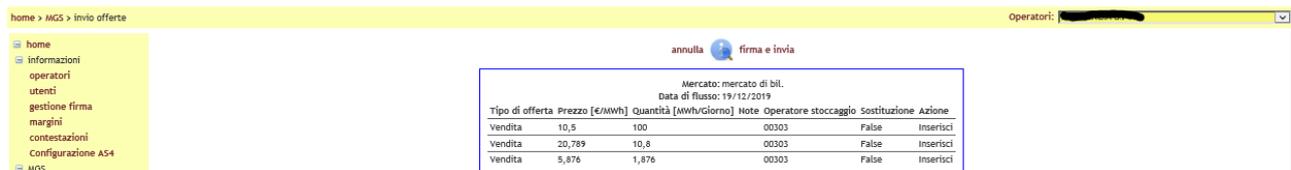


Figure 58: the phase of the content signature.

Figure shows the essential data that characterize the offers/bids: type of offer/bid, unit price, volume, notes, the storage Participant associated to the bid/offer, indicating whether it is a replacement and the action. In this case it is always an action of the **“enter”** type. In general, you can also perform the action of **cancellation** and **change**. To perform these actions, you need to load in the tabs the offers/bids already submitted through the links already described, or simply reloading the page (in fact, every time you reload the page, the offers/bids already submitted are automatically displayed).

Figure 59: managing the offers/bids already submitted.

Figure shows the offers/bids already submitted. With respect to Figure , please note that the second offer/bid was modified with regard to the volume, while the fourth is marked with the action **Delete**.

LIST OF THE OFFERS/BIDS

Once you handled the offers/bids, you can then view them in the offers/bids report, shown in Figure .Please note that the report is specific to the selected Participant in the upper right.

Figure 60: the list of the offers/bids.

Observing the filters, you may notice that you can see the bids/offers by range of the flow dates, type of transaction (sale and/or purchase), and offer/bid status. You can also specify the offer/bid ID or the xml message ID on which the offer/bid was conveyed.

The table shows details such as: the market, the volume submitted, the output volume (we shall return to this section later), the accepted volume (visible only upon the session confirmation), the price, the price at which the offer/bid was accepted, the flow date, the date of submission of an offer/bid (or its latest update), the code of the Participant that has sent the offer/bid, the type of offer/bid, the offer/bid status, the offer/bid ID, the User who sent the offer/bid, the code of the storage Participant and any notes.

SESSIONS PAGE

Continuing with the series of the pages, we find the page with the list of the market sessions. It shows all the MBS sessions, indicating the ID of the session for each of them, the flow date, the opening hours, the closing hours, the market and the status. As for the status, a session can be **opened**, **closed** or **completed**. Open sessions allow the submission of offers/bids and their management (**change** or **withdrawal**). A closed session does no longer accept offers/bids or modifications of those already submitted. A session is completed when it was performed, and the pairings were confirmed and the marginal price was determined.

id sessione	data	apertura	chiusura	mercato	stato	
290	11/10/2011	06/10/2011 20.00.00	11/10/2011 20.00.00	MBS	APERTA	
287	10/10/2011	05/10/2011 20.00.00	10/10/2011 20.00.00	MBS	APERTA	
284	09/10/2011	04/10/2011 20.00.00	07/10/2011 12.12.31	MBS	COMPLETATA	risultati di mercato grafico Asta Sell qty: 4.900,0 Buy qty: 1.570,0 M. price: 14,50 M. qty: 1.570,0
283	08/10/2011	03/10/2011 20.00.00	07/10/2011 11.55.14	MBS	COMPLETATA	risultati di mercato grafico Asta Sell qty: 3.805,8 Buy qty: 2.560,6 M. price: 16,00 M. qty: 2.560,6
282	07/10/2011	02/10/2011 20.00.00	07/10/2011 12.22.10	MBS	COMPLETATA	risultati di mercato grafico Asta Sell qty: 712,7 Buy qty: 4.560,0 M. price: 24,30 M. qty: 712,7
280	06/10/2011	01/10/2011 20.00.00	06/10/2011 10.31.11	MBS	COMPLETATA	risultati di mercato grafico Asta Sell qty: 1.021.224,2 Buy qty: 130,0 M. price: 12,40 M. qty: 130,0

Figure 612: the report on sessions.

Completed sessions show the details, as shown in. Figure 612. In fact, they are displayed the volume submitted for sale, that submitted for purchase, the marginal price and the marginal volume. Each completed session also denotes two links: [Results of market](#) and [chart](#).

RESULTS OF MARKET

Clicking [Results of market](#), it opens a page with more details. They are confirmed by the data regarding the volumes submitted, the marginal price and marginal volumes.

Market: MBS Flow Date: 09/10/2011

Risultati asta implicita

Sell qty: 4.900,0 MWh/Giorno Buy qty: 1.570,0 MWh/Giorno
Marginal price: 14,500 €/MWh Marginal qty: 1.570,0 MWh/Giorno

Posizione netta al PSV

Ragione Sociale	Codice Operatore	data	Qtà (Stogit)	Qtà (Edison)
AZ Gas	AZGAS	09/10/2011	-958,3	0
Energy Sol	ENSOL	09/10/2011	-611,7	0

Figure 62: Results of market.

Below are shown instead the net positions of the Participants. Remember that they are shown only those Participants under competence of the User connected. For each Participant, it's shown the net position for each of the storage Participant.

DEMAND AND SUPPLY INTERSECTION CHART

In the sessions page, clicking [chart](#), it opens a popup containing information already reported in the previous two pages. In addition, it displays the chart with the intersection of the sales and purchase curves.

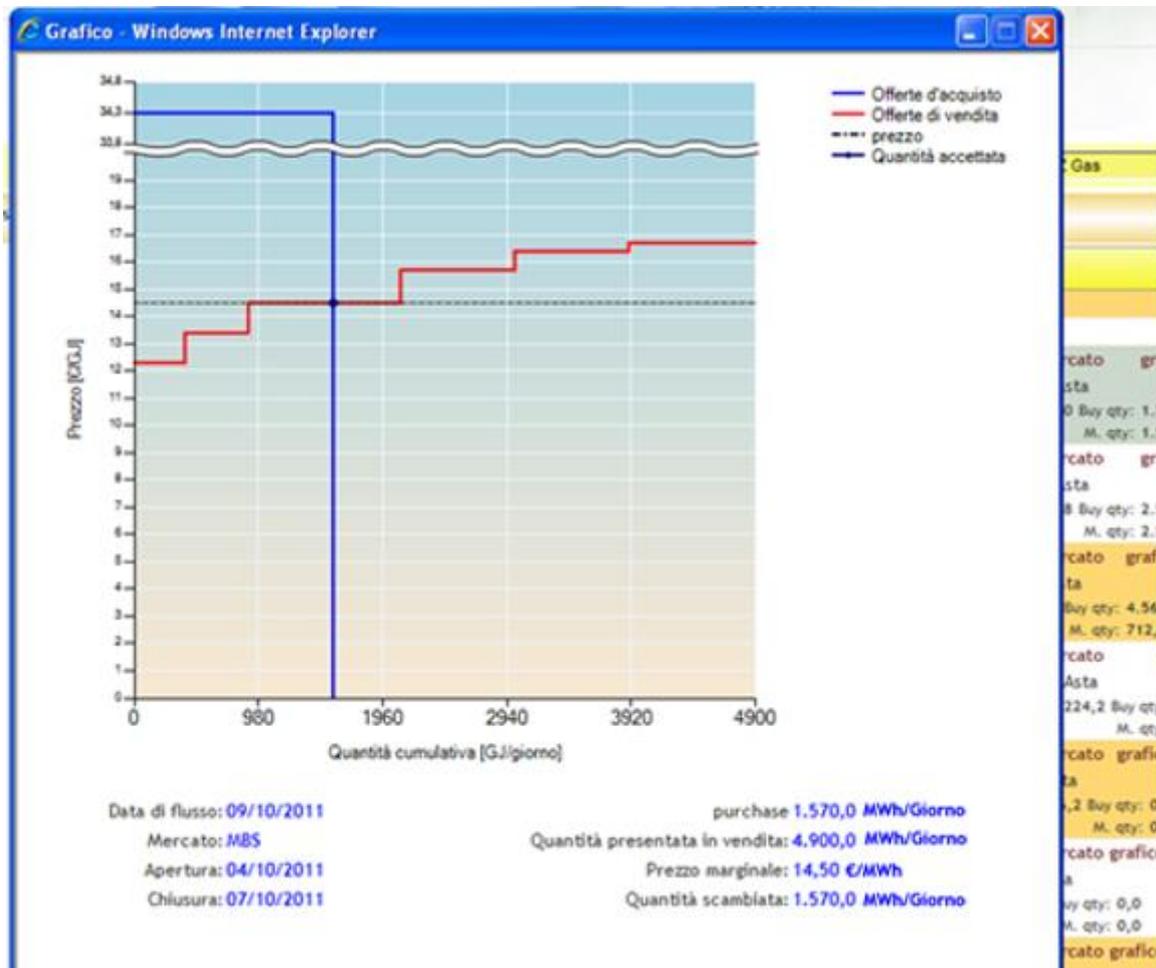


Figure 63: the chart with the intersection of the sales and purchase curves.

GUARANTEES MANAGEMENT

The guarantees management page allows the users to view but not modify the status of financial guarantees relating to the forward gas market (MT) in relation to the participants they represent.

The first report contains information such as the code and the operator's name, the initial amount of financial guarantees, the last payment date and the last paid date.

By clicking "dettagli" (details) you may view the underlying report, which provides details of financial guarantees and credit / debit adjustment.

(Mostra filtri...) export refresh

op.	ragione sociale	Quantità iniziale	ultima data in pagamento	ultima data pagata	
00000	██████████	50.000,000	08/12/2019	17/11/2019	dettagli

dettagli operatore : 2B ENERGIA S.P.A.

visualizza movimenti chiusi

AccountActivityId	Descrizione movimento	Quantità iniziale	validità	Note	Data di flusso	Chiuso
783384	Financial Guarantee	50000,000	tutte le garanzie		18/12/2019	<input type="checkbox"/>
783385	Adjustment	-500,000			18/12/2019	<input type="checkbox"/>
783386	Adjustment	7000,000			17/12/2019	<input type="checkbox"/>

Chiudi

Figura 64: gestione depositi.

By checking the **show closed guarantees** box, you may view possible closed financial guarantees and credit/debit adjustments.

SUMMARY OF MP GUARANTEES

On the summary of MP guarantees page, you may view but not modify the status of the financial guarantees of the participants that the user represents (Figure 61).

- in the section “Sommario Garanzie MP” (Summary of MP Guarantees) the initial guarantee (the amount of valid guarantees registered on the Netting platform, reduced by the Maintenance Margin of 3%); Guarantee Capacity (the difference between Initial Guarantee and Exposure); the Exposure (the exposure determined by all the positions held on all the platforms whose guarantee pertains to Netting);
- in the section “Dettaglio Garanzie” (Guarantees Detail) all the deposits and bank guarantees relating to the centralized Netting guarantee system and the credit and debit adjustment of the MP spot gas market;
- in the section “Esposizione per data di settlement” (Exposure by Settlement Date), all exposures divided by settlement date determined by all the positions held on all the platforms whose guarantee pertains to Netting, and the valid credits of the MP spot gas market only.

refresh

Sommaro Garanzie MP	
Descrizione	Valore
Garanzia Iniziale	145.500
Capienza Garanzia	144.264,24
Esposizione	-1.235,76

Dettaglio Garanzie				
Tipo	Inizio Validità	Fine Validità	Importo	Importo Residuo
Deposito	01/01/0001	31/12/9999	97.000	97.000
Fidejussione	18/12/2018	31/12/2018	970	970
Credito	16/12/2019	05/01/2020	4.800	4.800
Fidejussione	18/12/2019	31/12/2050	48.500	47.264,24

Esposizione per data di Settlement		
Data di Settlement	Esposizione	
08/01/2020	3.564,24	dettagli

Figure 65: summary of MP guarantees.

By clicking on **details**, you may view a pop-up containing the details of the financial guarantee formulas, in which all items and the relative amount can be identified (Figure 62).

dettagli Esposizione - Internet Explorer

2B ENERGIA S.P.A.

Data di Settlement : 08/01/2020

dettagli

Data di flusso	Esposizione
18/12/2019	-1.235,76
21/12/2019	2.400
22/12/2019	2.400

Figura 66: details of the financial guarantee

UPLOAD

After the section of the menu called MGS, let's now turn to the last section, namely the [messages](#). The [upload](#) page is used to forward the system the xml files described in detail in the [implementation guide](#).

This manual will exclusively show how to upload a file. Please remember that you can select a Participant referred to in the xml file, otherwise the message will be rejected by the system. Clicking **browse**, you select the xml file and clicking **Upload file**, you load it on the system, after signing the contents of the file. The outcome of the transaction submitted to the system can be controlled in the [messages list](#) page, analyzed below.

MESSAGES LIST

This page displays all the input messages and the output ones from the system. Please note that they are displayed not only the XML files submitted via the upload page: every transaction on the system by the normal pages of the platform are then translated into xml files and stored in the database. Therefore, the message list also shows those transactions made through web pages.

Let's analyze in detail the columns that make up the table. Message ID is also a link that allows you to view the original xml message detailing the transaction. Similarly, the ID of the message out, allows you to view the **FA**, or the outcome of the transaction. The third column allows you to view the contents signed at the time of submission via web pages. It tracks the status of the message, the Participant code, the User who submitted the file, the file name, the timestamp, the success rate of the transaction (for example, if within the same xml file, you submit 4 offers/bids and only three of them are accepted by the system, the column will show 3 -> 4), finally, it is shown the processing time.

home > messaggi > lista messaggi

Operatori: [redacted]

(nascondi Filtri...)

data inizio: 20/12/2018
data fine: 20/12/2019
 mark

id message	id out message	Contenuto	message subject	message status	op.	user code	file name	timestamp	Transazione	elab. time
581978	1462319	Visualizza	Offers	OUT	00041	user	Offers.xml	20/12/2019 15:17:53	4 -> 4	00.00
581105	1462073	Visualizza	Offers	OUT	00041	user	Offers.xml	19/12/2019 11:20:37	3 -> 3	00.01
581103	1462070	Visualizza	DisputeMessages	OUT	00041	user	DisputeMessages	19/12/2019 10:49:28	1 -> 1	00.00
-	1461755		MEMBR	OUT	00041		MEMBR_5cc4f9e072	18/12/2019 10:25:02		
-	1458922		MEMBR	OUT	00041		MEMBR_c07b3201b	04/12/2019 15:51:36		
-	1458593		MEMBR	OUT	00041		MEMBR_9f955f1594	04/12/2019 13:33:18		
576345	1454516	Visualizza	Offers	OUT	00041	[redacted]	Offers.xml	08/11/2019 14:11:30	0 -> 1	00.00
575897	1453880	Visualizza	Offers	OUT	00041	[redacted]	Offers.xml	31/10/2019 11:29:03	1 -> 1	00.12
-	1440264		MEMBR	OUT	00041		MEMBR_3ba7cd94bb	12/02/2019 15:12:52		
-	1440401		MEMBR	OUT	00041		MEMBR_b1ecd00629	12/02/2019 15:02:24		
-	1440286		MEMBR	OUT	00041		MEMBR_39cac43387	12/02/2019 15:02:17		
-	1440069		MEMBR	OUT	00041		MEMBR_20227832e	11/02/2019 11:56:34		
-	1439937		MEMBR	OUT	00041		MEMBR_a9b05befe7	11/02/2019 11:36:19		
-	1439811		MEMBR	OUT	00041		MEMBR_7ccce8e4c	11/02/2019 11:19:45		
-	1437626		MEMBR	OUT	00041		MEMBR_27d42ae08c	07/02/2019 10:42:10		
-	1437516		MEMBR	OUT	00041		MEMBR_85268323b	07/02/2019 10:42:05		
-	1436266		MEMBR	OUT	00041		MEMBR_10e66301f	06/02/2019 10:39:59		
-	1436156		MEMBR	OUT	00041		MEMBR_a5c892279	06/02/2019 10:39:52		
-	1434973		MEMBR	OUT	00041		MEMBR_27b21160b2	05/02/2019 10:37:05		
-	1434473		MEMBR	OUT	00041		MEMBR_44ef4336b0	05/02/2019 10:36:37		
-	1433303		MEMBR	OUT	00041		MEMBR_9a6c14107e	04/02/2019 10:38:15		
-	1433193		MEMBR	OUT	00041		MEMBR_9253e45954	04/02/2019 10:38:08		
-	1432869		MEMBR	OUT	00041		MEMBR_3972b09664	03/02/2019 10:48:47		
-	1432459		MEMBR	OUT	00041		MEMBR_a0b4377cd8	03/02/2019 10:46:40		

1 2 3 4 5

Figure 673: the messages list.

The filters available allow you to select the messages with timestamps within a given range of dates.

The **mark** checkbox instead allows you to mark the output messages as downloaded, where they are viewed by clicking the ID out message.

DYNAMICS OF A MARKET SESSION

In order to better understand the dynamics of a market session, below are some typical scenarios.

SUBMISSION OF BIDS/OFFERS

As previously reported, each Participant may submit up to twenty offers/bids for each of the storage Participant. 10 of these are purchase offers/bids and 10 are sale offers/bids.

The Participant can take note of those who are its maximum and minimum margins for the purchase and for the sale and submit bids/offers accordingly. However, the system, at the time of acceptance of the bids/offers, will not implement any control over margins, not reporting the Participant so any failure to meet the situation of margins.

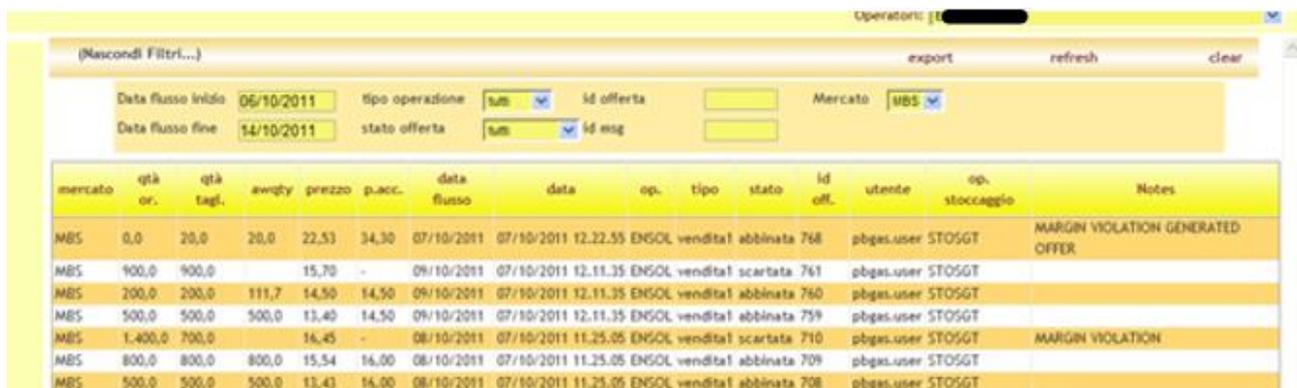
CLOSING OF THE SESSION AND ITS COMPLETION

Upon the close of the session, the Participant cannot submit bids/offers. First the margins are checked for each Participant.

MARGINS CHECK

There are different scenarios, regarding the margins check:

- 1) **The Participant has submitted bids/offers in respect of margins.**
- 2) **The Participant has exceeded the maximum margin:** it is the case in which (given a storage Participant and given a kind of bid/offer) the sum of the amount of submitted and accepted offers/bids from the system exceeds the maximum margin. In this case, offers/bids are order by economic merit and the amounts (at time of the less meritorious bid/offer) are cut to meet the margin. The offers/bids characterized by retouched amount shall be accompanied by a note **"MARGIN VIOLATION"** possibly linked to the note entered by the Participant, as shown in Figure . Cut amount column shows the cut amount or the amount that will be taken into account by the algorithm, after cutting for breach of the margin.



mercato	qtà or.	qtà tagl.	avgly	prezzo	p.acc.	data flusso	data	op.	tipo	stato	id off.	utente	op. stoccaggio	Notes
MBS	0,0	20,0	20,0	22,53	34,30	07/10/2011	07/10/2011	12.22.55	ENSOL vendita	abbinata	768	pbgas.user	STOSGT	MARGIN VIOLATION GENERATED OFFER
MBS	900,0	900,0		15,70	-	09/10/2011	07/10/2011	12.11.35	ENSOL vendita	scartata	761	pbgas.user	STOSGT	
MBS	200,0	200,0	111,7	14,50	14,50	09/10/2011	07/10/2011	12.11.35	ENSOL vendita	abbinata	760	pbgas.user	STOSGT	
MBS	500,0	500,0	500,0	13,40	14,50	09/10/2011	07/10/2011	12.11.35	ENSOL vendita	abbinata	759	pbgas.user	STOSGT	
MBS	1.400,0	700,0		16,45	-	08/10/2011	07/10/2011	11.25.05	ENSOL vendita	scartata	710	pbgas.user	STOSGT	MARGIN VIOLATION
MBS	800,0	800,0	800,0	15,54	16,00	08/10/2011	07/10/2011	11.25.05	ENSOL vendita	abbinata	709	pbgas.user	STOSGT	
MBS	500,0	500,0	500,0	13,43	16,00	08/10/2011	07/10/2011	11.25.05	ENSOL vendita	abbinata	708	pbgas.user	STOSGT	

Figure 68: retouched offers/bids due to a margin violation.

Figure shows the report on margins with failures to comply with the margins. It displays the exceeded maximum margin in red and the quantities below the minimum in blue. Situations which fall within the margins are in black.

report margins Operatori: [REDACTED]

(Nascondi Filtri...)

Data flusso inizio: 07/10/2011 Operatore stoccaggio: tutti

Data flusso fine: 10/10/2011

op.	data flusso	min. salire	max salire	min scendere	max scendere	qtà presentata salire	qtà presentata scendere	op. stoccaggio
GASBIZ	08/10/2011	40,5	1.000,5	45,5	600,0	0,0	0,0	STOSGT
ENSOL	08/10/2011	20,0	2.000,0	50,3	300,1	2.700,0	0,0	STOSGT
AZGAS	08/10/2011	400,0	3.000,0	500,0	2.000,0	1.700,5	9,0	STOSGT
GASBIZ	07/10/2011	40,5	1.000,5	45,5	600,0	0,0	0,0	STOSGT
ENSOL	07/10/2011	20,0	2.000,0	50,3	300,1	0,0	0,0	STOSGT
AZGAS	07/10/2011	400,0	3.000,0	500,0	2.000,0	0,0	0,0	STOSGT
GASBIZ	09/10/2011	-	-	-	-	0,0	0,0	STOSGT
AZGAS	09/10/2011	-	-	-	-	3.300,0	0,0	STOSGT
ENSOL	09/10/2011	-	-	-	-	1.600,0	0,0	STOSGT
ENSOL	10/10/2011	-	-	-	-	0,0	0,0	STOSGT
GASBIZ	10/10/2011	-	-	-	-	0,0	0,0	STOSGT
AZGAS	10/10/2011	-	-	-	-	0,0	50,0	STOSGT

Figure 69: report on margins with failure to meet the margins.

INVALIDATION OF THE OFFERS/BIDS

After checking the margins, the system proceeds to invalidate the Participants' offers/bids that have the same offer/bid type submitted by SNAM Rete Gas. These offers/bids are marked as **invalid**.

GUARANTEE CHECK

The next step involves the guarantee check on those offers/bids submitted by Participants. The more significant scenario involves the overcoming of the financial guarantee available to the Participant. In that case the offers/bids are subject to a deduction of the amount in order to meet the financial guarantee. Then it can happen that some offers/bids are marked as **invalid** and others have a decreased amount. **Invalid** and curtailed offers/bids show **"WARRANTY LIMIT EXCEEDING"** in the notes.

EXECUTION AND PRO RATA ALLOCATION OF BIDS/OFFERS

At this point the market can form the **price** and the **marginal quantities**, crossing the demand and supply curves.

It may happen that there are more offers/bids submitted with a price that will turn out to be the marginal one. In this case it implements the *pro rata* allocation of the offers/bids, dividing the amount of competence, among all bids/offers at the marginal price. The amount is distributed in percentage, weighing the amount submitted. Possible residues are allocated starting from the temporally oldest offer/bid.

MARKET OUTCOMES

After the session, you can view the summary details through the already examined the sessions page.

On the messages list page, the market outcomes and bid notifications are also made available. The first report the price and the marginal volumes and submitted volumes for sale and purchase. The bid notifications instead of the results of the bids/offers, showing details such as the marginal price, the amount awarded, the cut amounts, etc. Details of the format of these files are available in the **implementation guide**.

THE HOMEPAGE

Figure shows the main page of the portal. Here four main always available areas are numbered whatever the User open page.

USER DETAILS AND LOGOUT

The area **(1)** shows the authenticated User name and his/her role (**User** or **viewer**). Immediately next, there is a dropdown menu that lets you choosing the language with which to display the contents of the portal. The content of the pages will be translated on the basis of the selected language. Besides the translation of text parts, changing the language also involves displaying the date in Italian (it-IT) or English (en-GB) format and the decimal separator for the figures: the comma (",") for Italian and the dot (".") for English.

By clicking the  icon, you can leave the portal, closing the session. Now the User must re-authenticate if he/she wants to access the portal.



Figure 70: the main page of the portal

THE ALLOWED PARTICIPANTS

(2) displays a drop down menu containing all Participants authorized to operate on the MPL, the current User's competence. The operations that the User performs on the portal, such as the submission of offers/bids, are associated with the selected Participant in that menu.

THE MENU

Section **(3)** shows the menu that contains the links to all the pages that the User can achieve.. There is an **information** section where all the pages bearing information useful to the Users are grouped. **MPL** section contains the pages for the submission and monitoring of the offers/bids and the results of the market sessions,

Finally, the **messages** section shows the pages to upload xml file and the list of input and output messages of competence of those Participants associated to the User.

THE MAIN CONTENTS

The last section, which is the **(4)**, shows the contents of the pages. The home page, that is the one shown in Figure , is the page that contains the communications to Participants.

FILTERS AND REPORTS

Before you scroll through the pages of the portal, it is necessary to explain a common feature to all the pages that show a report.



Figure 71: filters and reports in Excel..

Each report page has a filters section that usually is not shown when the page is opened. To show it, you must click the  icon in the upper-right group. Conversely, to hide it, you must click instead the  icon. The one that appears is the filter section in which, in general, you can enter values that aim to restrict the number of results provided by the underlying report. To recharge the report taking account of appropriate filters, it is necessary to click . Finally, you can export the report to Excel format by clicking . After clicking, the page asks you to save the report in Excel format, bringing all the results, obviously without pagination of them like it happens on the web page.

Some filters are shown for convenience on the columns. In Figure , the penultimate "enabled" column contains a filter that shows all possible values. After changing the filter, the refresh is automatic.

USERS PAGE

The users page shows the list of users entitled to operate for a participant. The page is read-only and shows data such as user code, name and surname, telephone, email, certificate of authentication and signature of all users entitled to operate for the same participant.

codice utente	nome	cognome	Descrizione	tel.	email	certificato	cert. di firma	operatori	abili	refresh
[redacted]	[redacted]	[redacted]	User			infocert auth AC infocert sign AC	[redacted]	[redacted]	[redacted]	10
[redacted]	Andrea	[redacted]	User			infocert auth AC infocert sign AC	[redacted]	[redacted]	[redacted]	10
[redacted]	[redacted]	[redacted]	User			ACT	ACT	[redacted]	[redacted]	10
[redacted]	[redacted]	[redacted]	User			infocert auth AC infocert sign AC	[redacted]	[redacted]	[redacted]	10
[redacted]	[redacted]	[redacted]	User		[redacted]	ACT	ACT	[redacted]	[redacted]	10
[redacted]	[redacted]	[redacted]	User		[redacted]	ACT	ACT	[redacted]	[redacted]	10
[redacted]	[redacted]	[redacted]	User		[redacted]	infocert auth AC infocert sign AC	[redacted]	[redacted]	[redacted]	10
[redacted]	[redacted]	[redacted]	User		[redacted]	infocert auth AC infocert sign AC	[redacted]	[redacted]	[redacted]	10
[redacted]	[redacted]	[redacted]	User		[redacted]	infocert auth AC infocert sign AC	[redacted]	[redacted]	[redacted]	10
[redacted]	[redacted]	[redacted]	User		[redacted]	infocert auth AC infocert sign AC	[redacted]	[redacted]	[redacted]	10

Figure 72: the list of Participants entitled to the platform.

THE PAGE OF PARTICIPANTS

Participants page shows the list of Participants authorized to operate on the MPL. This page is read-only and contains information regarding the business name and the Participant code.

ragione soc. *	cod. operatore
Royalties EDISON SPA	r00008
Royalties ENI S.P.A.	r00018
Royalties SHELL ITALIA E&P SPA	r50035
Royalties SOCIETA' ADRIATICA IDROCARBURI	r50010
ZZ Royalties SOCIETA' ADRIATICA IDROCARBURI	r90109
ZZ Royalties SOCIETA' IONICA GAS SPA	r90108
2B ENERGIA S.P.A.	00041
2V ENERGY SRL	00198
50 Hertz SRL	50076
A2A S.P.A.	00267
ACEA Energia SPA	00275
ACEA PINEROLESE ENERGIA SRL	50045
ADATTO ENERGY SRL	90136
AGSM ENERGIA SPA	00123
AJM ENERGY S.R.L.	00045
ALPERIA TRADING SRL	00302
ALPHERG SPA	00298
Alpiq AG	00214
Arcadia Italia Srl	50086
ASCOPIAVE ENERGIE SPA	50094
ASCOTRADE SPA	00235
ATS POWER SRL	00289
AUDAX ENERGIA SRL	00222
AUGUSTA RATIO SPA	00164
AXOPOWER SPA	00234

Figure 73: the list of participants entitled to the platform

ADDING A NEW SIGNATURE CERTIFICATE

Through the signature management link, you CAN access the page that offers users the possibility to manage their signature certificate. If the user does not have a signature certificate, the page looks like in Figure 11; the link "Aggiungi" (Add) allows the user to add a certificate.



Figure 74: the user does not have a signature certificate. The page allows you to add one.

By clicking on the link “Aggiungi” (Add), you can choose, among the certificates installed on the user's computer, what you wish to use to sign the transactions being uploaded on the system, as shown in Figure 12.

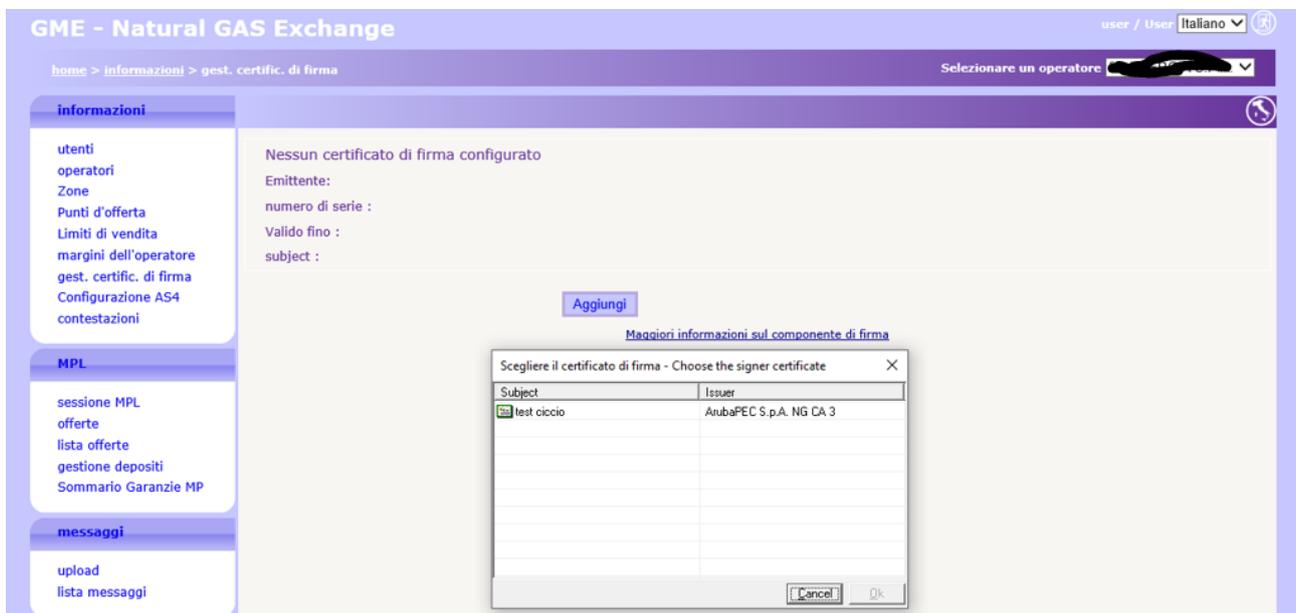


Figure 75: insertion of a new certificate

Once the certificate has been selected, its details are shown on the page. At this point, the user must confirm the insertion of the certificate by clicking on the link “Salva” (Save).



Figure 76: details of the certificate being inserted

Once the certificate has been inserted, before it can be used in transactions, it must be authorized by the portal administrator.

THE ZONES PAGE

The zones page is another read-only page that allows to view all the areas in which the user is admitted to operate on behalf of the participant selected in the dropdown menu at the top right and the maximum inter-zonal flows that can move from one area to another in both directions.

The screenshot shows the 'Zones' page in the GME - Natural GAS Exchange portal. The page is divided into a left sidebar with navigation links and a main content area with two tables.

Zone Table:

Codice Zona	descrizione	abilitato
IMPORT1	Import	<input checked="" type="checkbox"/>
PSV	The PSV zone	<input checked="" type="checkbox"/>
EDISON1	Edison Stoccaggio	<input checked="" type="checkbox"/>
GNL	LNG	<input checked="" type="checkbox"/>

Vincoli Interzonalii Table:

Zona 1	Zona 2	Da 1 a 2	Da 2 a 1	Funzione di costo	Descrizione
Zone for G+1 offers	The PSV zone	900000,000	899000,000	0,0	G1 to PSV
Residuale Iniezione SRG	The PSV zone	900000,000	899000,000	0,0	STG to PSV
Zone for G+n offers	Zone for G+1 offers	900000,000	899000,000	0,0	GN to G1
LNG	The PSV zone	900000,000	899000,000	0,0	GNL to PSV
Import	The PSV zone	900000,000	899000,000	0,0	IMP to PSV

Figure 77: the zones page

THE SALES LIMITS PAGE

The sales limits screen indicates the participant's operating margin selected in the dropdown menu at the top right, by filtering by date flow.

The screenshot shows the 'Sales Limits' page in the GME - Natural GAS Exchange portal. The page features a table with a date filter and a dropdown menu for the operating margin.

SellLimit Table:

op. #	data	margin operativo € [C]
	21/12/2019	

The page also includes a sidebar with navigation links and a dropdown menu for 'Selezionare un operatore'.

Figura 78: the sales limit page

COMPLAINTS

- Figure shows the page of the complaints through which you can monitor the progress of the claims. Any complaint can be inserted and then updated by associating new messages. You can see the list of all the complaints made by Participant, in particular: The title of the complaint, the state, the company code (Participant) which the complaint relates, the User who submitted the complaint, the timestamp indicating the time of submission and then a link relating to: The messages associated with the selected complaint
- Possibility to add a new message to the already open complaint.

titolo	stato	cod. operatore	utente	timestamp	link
contestazione	in attesa	00041	user	20/12/2019 15:30:19	messaggi nuovo messaggio

Figure 79: the complaints page.

With the  icon, you can then open the window to add a complaint, as shown in Figure

cod. operatore 0123GD

utente test

titolo

testo

[submit](#)

Figure 80: the page for entering complaints.

OFFER/BID POINTS

Continuing with the series of pages, please find the [Offer/bid points](#) page. It is a report that lists the offer/bids points on the platform. By default, only the products being traded today are shown. You can still change the filter values, by accessing the hidden panel for the management of the filters.



cod. punto d'offerta	description	op.	zona	abilitato	mercati abilitati	Deleghe	timestamp
35718200	Passo Gries	10000	IMPORT1	<input checked="" type="checkbox"/>	PBZ1 - abilitato - [13/11/2013 - 13/11/2013]	abilitato	[01/01/2017 - 31/12/2019 11:59]
PSV	Residuale Stoccaggio ST	10000	Risorse PSV	<input type="checkbox"/>	PBZ1 - abilitato - [28/01/2014 - 14/11/2014]	disabilitato	[01/10/2007 - 30/09/2019 11:59]
PSV LP	Line Pack	10000	PSV LP	<input type="checkbox"/>	PBZ1 - abilitato - [14/02/2014 - 01/01/2014]	disabilitato	[01/10/2007 - 30/09/2019 11:59]
PSV STG	Residuale Stoccaggio ST	10000	PSV STG	<input type="checkbox"/>	PBZ1 - abilitato - [14/02/2014 - 01/01/2014]	disabilitato	[01/10/2007 - 30/09/2019 11:59]
Risorse SRG	Risorse SRG	10000	Risorse SRG	<input type="checkbox"/>	PBZ1 - disabilitato - [28/01/2014 - 14/11/2014]	disabilitato	[01/10/2007 - 30/09/2019 11:59]

Figure 81: the offer/bid points page.

The columns displayed are respectively: the code of the offer/bid point, the description, the reference Participant, competence area, the enabling, the enabled markets, any proxy.

SENDING THE OFFERS/BIDS

The [offers/bids](#) page allows you to manage your bids/offers for a specific market session, i.e. the sending, modification and revocation. The page looks like in Figure .

Analyzing the page, at the top, there is a drop down menu with the list of sessions open to the submission of bids/offers; on right, there is another drop-down menu listing all offer/bid points for which the Participant is authorized to operate. Once you selected the offer/bid point, you can send (and generally managed) specific offers/bids of that offer/bid point.

Just below you can view summary information such as the volume presented for sale, the number of bids/offers already submitted in that session, the sales limit for that Participant (if already communicated by SNAM Rete Gas) and finally the details of the bid/offer submitted by SNAM Rete Gas (if it has already been forwarded to the system).

Further below again, there is the vector of the offers/bids, compilable by the User.

The screenshot shows a web browser window with the URL <http://meallinone1/PBZGasWebSite/Offers>. The page title is "offerte". The main content area is titled "Selezionare un operatore" and contains the following elements:

- Informazioni:** A sidebar menu with links for "utenti", "operatori", "Zone", "Punti d'offerta", "Limiti di vendita", "margini dell'operatore", "gest. certific. di firma", and "contestazioni".
- MPL:** A sidebar menu with links for "sessione MPL", "offerte", "lista offerte", "gestione depositi", "sommaro garanzie", and "calendario pagamenti".
- Messaggi:** A sidebar menu with links for "upload", "lista messaggi", and "messaggi in Home Page".
- GME Logo:** Logo for GME (Gestore Mercati Energetici).
- Summary Statistics:** Two boxes showing "offerte presentate" (0), "margini operativo €" (0,000 €), "margini dell'operatore" (0,000 MWh), "SRGOfferType", "SRGPrice" (0,000 €/MWh), and "SRGQuantity" (0,000 MWh).
- Table of Offers:** A table with columns: "id offerta", "Prezzo [€/MWh]", "Quantity [MW]", "tipo di offerta", "reference", and "operazione". The table contains 10 rows of "new" offers, all with "acquisto" type and "17/11/2017" reference. Each row has a "Inserisci" button.
- Form and Buttons:** A "note" field and a "firma e invia" button.

Figure 82: the offers/bids submission page.

SUBMISSION OF ONE OR MORE OFFERS/BIDS

Figure 83 shows an example of sending of two offers/bids: a sale offer/bid and a purchase offer/bid. To send, you must previously select an offer/bid point and fill the fields related to the price and quantity (expressed in MW).

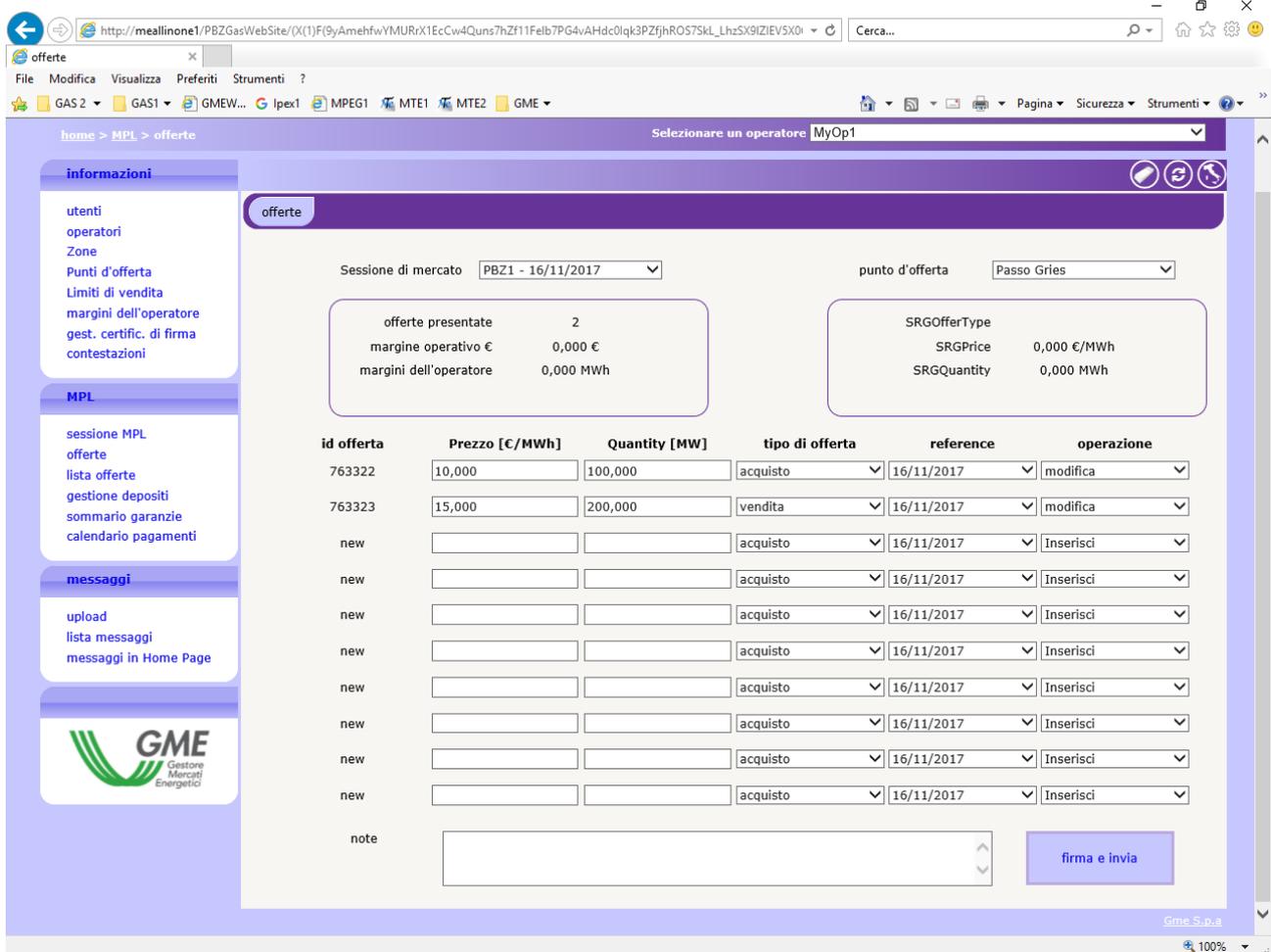


Figure 83: submission of one or more offers/bids.

Pressing "sign and send", you proceed with the phase of the transaction signature. There are all the details that characterize the offer/bid. Moreover also it shows the operation performed (in this case "enter"); then you will see other possible operations.

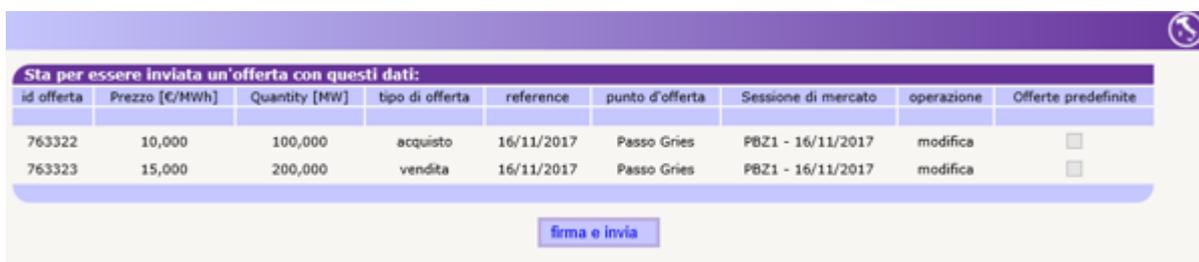


Figure 84: signing and submitting two offers/bids.

After the sending of transactions, you can monitor the results of the transactions by clicking the "Upload FA" button, as shown in Figure 85. When the *Functional Acknowledgment* will be available, you will see a link that lets you download the xml file locally. You can still review the outcome of the transaction at any time, via the [messages list](#) page.



Figure 85: loading the FA.

Now, reloading the page and selecting the previously selected offer/bid point for the submission of bids/offers, you can view the bids/offers already submitted in the offer/bid vector. For these offers/bids, it is also enhanced the first field (offer/bid ID), indicating the unique identifier characterizing each offer/bid on the system). The overlying summary boxes are enhanced simultaneously with the offers/bids submitted to the system.

offerte

Sessione di mercato PBZ1 - 16/11/2017

punto d'offerta Passo Gries

offerte presentate 2

marginale operativo € 0,000 €

marginale dell'operatore 0,000 MWh

SRGOfferType

SRGPrice 0,000 €/MWh

SRGQuantity 0,000 MWh

id offerta	Prezzo [€/MWh]	Quantity [MW]	tipo di offerta	reference	operazione
763322	<input type="text" value="10,000"/>	<input type="text" value="100,000"/>	acquisto	16/11/2017	modifica
763323	<input type="text" value="15,000"/>	<input type="text" value="200,000"/>	acquisto	16/11/2017	modifica
new	<input type="text"/>	<input type="text"/>	acquisto	16/11/2017	Inserisci
new	<input type="text"/>	<input type="text"/>	acquisto	16/11/2017	Inserisci
new	<input type="text"/>	<input type="text"/>	acquisto	16/11/2017	Inserisci
new	<input type="text"/>	<input type="text"/>	acquisto	16/11/2017	Inserisci
new	<input type="text"/>	<input type="text"/>	acquisto	16/11/2017	Inserisci
new	<input type="text"/>	<input type="text"/>	acquisto	16/11/2017	Inserisci
new	<input type="text"/>	<input type="text"/>	acquisto	16/11/2017	Inserisci
new	<input type="text"/>	<input type="text"/>	acquisto	16/11/2017	Inserisci
new	<input type="text"/>	<input type="text"/>	acquisto	16/11/2017	Inserisci
note	<input style="width: 100%;" type="text"/>				<input style="background-color: #007bff; color: white; padding: 5px 10px;" type="button" value="firma e invia"/>

Figure 86: the already submitted bids/offers

MODIFICATION AND WITHDRAWAL OF OFFERS/BIDS

In Figure 86, it is important to note that for each element of the vector containing an already submitted offer/bid, you can perform a couple of transactions through the last drop-down menu: modification and revocation.

offerta

Sessione di mercato

punto d'offerta

offerte presentate 2

marginale operativo € 0,000 €

marginale dell'operatore 0,000 MWh

SRGOfferType

SRGPrice 0,000 €/MWh

SRGQuantity 0,000 MWh

id offerta	Prezzo [€/MWh]	Quantity [MW]	tipo di offerta	reference	operazione
763322	<input type="text" value="18,000"/>	<input type="text" value="150,000"/>	<input type="text" value="acquisto"/>	<input type="text" value="16/11/2017"/>	<input type="text" value="modifica"/>
763323	<input type="text" value="25,000"/>	<input type="text" value="250,000"/>	<input type="text" value="acquisto"/>	<input type="text" value="16/11/2017"/>	<input type="text" value="modifica"/>
new	<input type="text"/>	<input type="text"/>	<input type="text" value="acquisto"/>	<input type="text" value="16/11/2017"/>	<input type="text" value="Inserisci"/>
new	<input type="text"/>	<input type="text"/>	<input type="text" value="acquisto"/>	<input type="text" value="16/11/2017"/>	<input type="text" value="Inserisci"/>
new	<input type="text"/>	<input type="text"/>	<input type="text" value="acquisto"/>	<input type="text" value="16/11/2017"/>	<input type="text" value="Inserisci"/>
new	<input type="text"/>	<input type="text"/>	<input type="text" value="acquisto"/>	<input type="text" value="16/11/2017"/>	<input type="text" value="Inserisci"/>
new	<input type="text"/>	<input type="text"/>	<input type="text" value="acquisto"/>	<input type="text" value="16/11/2017"/>	<input type="text" value="Inserisci"/>
new	<input type="text"/>	<input type="text"/>	<input type="text" value="acquisto"/>	<input type="text" value="16/11/2017"/>	<input type="text" value="Inserisci"/>
new	<input type="text"/>	<input type="text"/>	<input type="text" value="acquisto"/>	<input type="text" value="16/11/2017"/>	<input type="text" value="Inserisci"/>
new	<input type="text"/>	<input type="text"/>	<input type="text" value="acquisto"/>	<input type="text" value="16/11/2017"/>	<input type="text" value="Inserisci"/>
new	<input type="text"/>	<input type="text"/>	<input type="text" value="acquisto"/>	<input type="text" value="16/11/2017"/>	<input type="text" value="Inserisci"/>
note	<input type="text"/>				<input type="button" value="firma e invia"/>

Figure 87: modification and withdrawal of offers/bids

In Figure 88 for example, we revoke the first offer/bid and modify the amount of the second offer/bid. Then we proceed with the submission. The summary box that needs to be digitally signed reports the two operations separately. It's also enhanced the offer/bid ID field.

Sta per essere inviata un'offerta con questi dati:

id offerta	Prezzo [€/MWh]	Quantity [MW]	tipo di offerta	reference	punto d'offerta	Sessione di mercato	operazione	Offerte predefinite
763322	10,000	100,000	acquisto	16/11/2017	Passo Gries	PBZ1 - 16/11/2017	modifica	<input type="checkbox"/>
763323	15,000	200,000	acquisto	16/11/2017	Passo Gries	PBZ1 - 16/11/2017	modifica	<input type="checkbox"/>

Figure 89: confirmation of the modification and revocation.

OTHER OFFERS/BIDS SENDING

If the offers/bids vector contains already offers/bids, you can send additional offers/bids, without modifying the existing ones. This ensures that the existing offers/bids do not lose time priority.

offerte

Sessione di mercato: PBZ1 - 16/11/2017

punto d'offerta: Passo Gries

offerte presentate: 2

marginale operativo €: 0,000 €

marginale dell'operatore: 0,000 MWh

SRGOfferType

SRGPrice: 0,000 €/MWh

SRGQuantity: 0,000 MWh

id offerta	Prezzo [€/MWh]	Quantity [MW]	tipo di offerta	reference	operazione
763322	10,000	100,000	acquisto	16/11/2017	modifica
763323	15,000	200,000	acquisto	16/11/2017	modifica
new	14	250	acquisto	16/11/2017	Inserisci
new	13	150	acquisto	16/11/2017	Inserisci
new			acquisto	16/11/2017	Inserisci
new			acquisto	16/11/2017	Inserisci
new			acquisto	16/11/2017	Inserisci
new			acquisto	16/11/2017	Inserisci
new			acquisto	16/11/2017	Inserisci
new			acquisto	16/11/2017	Inserisci
note					firma e invia

Figure 90: sending other offers/bids.

LIST OF THE OFFERS/BIDS

The list of the offers/bids page shown in Figure shows the selected Participant bids/offers.

Selezionare un operatore: MyOp1

operazione: tutti

data inizio: 15/01/2017

data fine: 16/11/2017

tipo operazione: tutti

codice utente:

Punti d'offerta: tutti

lista offerte																
nome prod/	cod. punto d	q.tà MWh/g	Quantità scambiata MWh/g	qtà rifiutata MWh/g	tipo	prezzo €	pr.acc.	contro	data	op.	stato	utente	id offre	refere	note	predO
LOC-PROD	35718200	24,000	0,000	0,000	acquist	10,000		240,00€	16/11/2	MyOp1	sottome emanu	75235	16/11/			
LOC-PROD	35718200	20,000	20,000	4,000	venditi	1,000	50,000	24,000	04/11/2	MyOp1	abbinati emanu	75233	04/11/	REDUC		
LOC-PROD	35718200	24,000	0,000	0,000	acquist	10,000		240,00€	04/11/2	MyOp1	sottome emanu	75233	04/11/			
LOC-PROD	35718200	24,000	0,000	0,000	acquist	1,000		24,000	04/11/2	MyOp1	sottome emanu	75233	04/11/			
LOC-PROD	35718200	24,000	24,000	0,000	acquist	10,000	10,000	240,00€	04/11/2	MyOp1	abbinati emanu	75232	04/11/			
LOC-PROD	35718200	12,000	12,000	0,000	acquist	50,000	10,000	600,00€	03/11/2	MyOp1	abbinati emanu	75232	03/11/			
LOC-PROD	35718200	24,000	24,000	0,000	acquist	10,000	10,000	240,00€	03/11/2	MyOp1	abbinati emanu	75232	03/11/			

Pagina: 1 - N° totale pagine: 1

Righe per pagina: 200

Righe da 1 a 7 - N° di righe totali: 7

Figure 91: the list of the offers/bids.

Details are provided such as: the offer/bid point, volume, volume traded (valued only after the running of the market), the volume rejected for exceeded sales limits (enhanced only after the running of the market), the type of offer/bid (sale or purchase), the submitted price, the price accepted (only evaluated after the running of the market), the

equivalent value of the offer/bid, the flow date of the session, the offer/bid status, the User that sent the offer/bid, the offer/bid ID and any notes.

THE MARKET SESSIONS PAGE

Clicking the MPL sessions, you open the page that shows all the market sessions, both the current one, both the old ones (Figure). The information displayed covering the flow date of the session, the dates of opening and closing of the session, the session state, the aggregate results (including the SRG offer/bid) and finally the ⓘ button that displays the distinct net positions by Participant and offer/bid point.

id sessione	data	apertura	chiusura	stato	risultati	dettagli
13965	07/02/2017	06/02/2017 17:00:00	06/02/2017 20:00:00	NEW	Offerta SRG Vendita: 10.000 MWh Codice Zona: SHPORT1 Prezzo marginale: 70,000 €/MWh qt. marg. acquisto 10.000 MWh qt. marg. vendita 0,000 MWh Codice Zona: PSV Prezzo marginale: 75,000 €/MWh qt. marg. acquisto 0,000 MWh qt. marg. vendita 10,000 MWh Codice Zona: EDISON1 Prezzo marginale: - qt. marg. acquisto - qt. marg. vendita - Codice Zona: GNL Prezzo marginale: - qt. marg. acquisto - qt. marg. vendita - Codice Zona: Riforma SRG Prezzo marginale: - qt. marg. acquisto - qt. marg. vendita -	
13960	04/02/2017	03/02/2017 17:21:00	03/02/2017 17:29:00	CHIUSA	Offerta SRG Acquisto: 15.000 MWh Codice Zona: SHPORT1 Prezzo marginale: 40,000 €/MWh qt. marg. acquisto 0,000 MWh qt. marg. vendita 15,000 MWh Codice Zona: PSV Prezzo marginale: 40,000 €/MWh qt. marg. acquisto 15,000 MWh qt. marg. vendita 0,000 MWh Codice Zona: EDISON1 Prezzo marginale: - qt. marg. acquisto - qt. marg. vendita -	ⓘ

Figure 92: the sessions list.

GUARANTEES MANAGEMENT

The guarantees management page allows the users to view but not modify the status of financial guarantees relating to forward gas market (MT) in relation to the participants they represent.

The first report contains information such as the code and the operator's name, the initial amount of financial guarantees and the last paid date.

By clicking ⓘ you may view the underlying report, which provides details of financial guarantees and credit/debit adjustment.



Figure 93: financial guarantee.

By checking the **show closed guarantees** box, you may view possible closed financial guarantees and credit/debit adjustments.

SUMMARY OF MP GUARANTEES

On the summary of guarantees page, you may view but not modify the status of the financial guarantees of the participants that the user represents (Figure 85). For each participant, the page shows the code, the registered name, and

- in the section “Sommaro garanzie MP” (Summary of MP Guarantees) the initial guarantee (the amount of valid guarantees registered on the Netting platform, reduced by the Maintenance Margin of 3%); Guarantee Capacity (the difference between Initial Guarantee and Exposure); the Exposure (the exposure determined by all the positions held on all the platforms whose guarantee pertains to Netting);
- in the section “Dettaglio Garanzie” (Guarantees Detail) all the deposits and bank guarantees relating to the centralized Netting guarantee system and the credit and debit adjustment of the MP spot gas market;
- in the section “Esposizione per data di settelement” (Exposure by Settlement Date), all exposures divided by settlement date determined by all the positions held on all the platforms whose guarantee pertains to Netting, and the valid credits of the MP spot gas market only.

op.	ragione sociale	garanzia prestata	esposizione	
MyOperator	MyOperator	10000,000	0	dettagli
MyOperator2	MyOperator2	1000000,000	-16287,000	dettagli
MyOperator3	MyOperator3	1000000,000	-9150,000	dettagli
MyOperator4	MyOperator4	10000,000	-1586,000	dettagli
MyOperator5	MyOperator5	1000000,000	-2806,000	dettagli
MyOperator6	MyOperator6	1000000,000	0	dettagli
MyOperator7	MyOperator7	1000000,000	-18034,279	dettagli
MyOperator8	MyOperator8	1000000,000	-15456,278	dettagli
MyOperator9	MyOperator9	1000000,000	-16612,891	dettagli
MyOperator10	MyOperator10	1000000,000	-976,000	dettagli
MyOperator11	MyOperator11	1000000,000	-976,000	dettagli
MyOperator12	MyOperator12	10000,000	0	dettagli
MyOperator13	MyOperator13	10000000,000	0	dettagli

Figure 494: summary of guarantees

By clicking on **details**, you may view a pop-up containing the details of the financial guarantee formulas, in which all items and the relative amount can be identified (Figure 86).

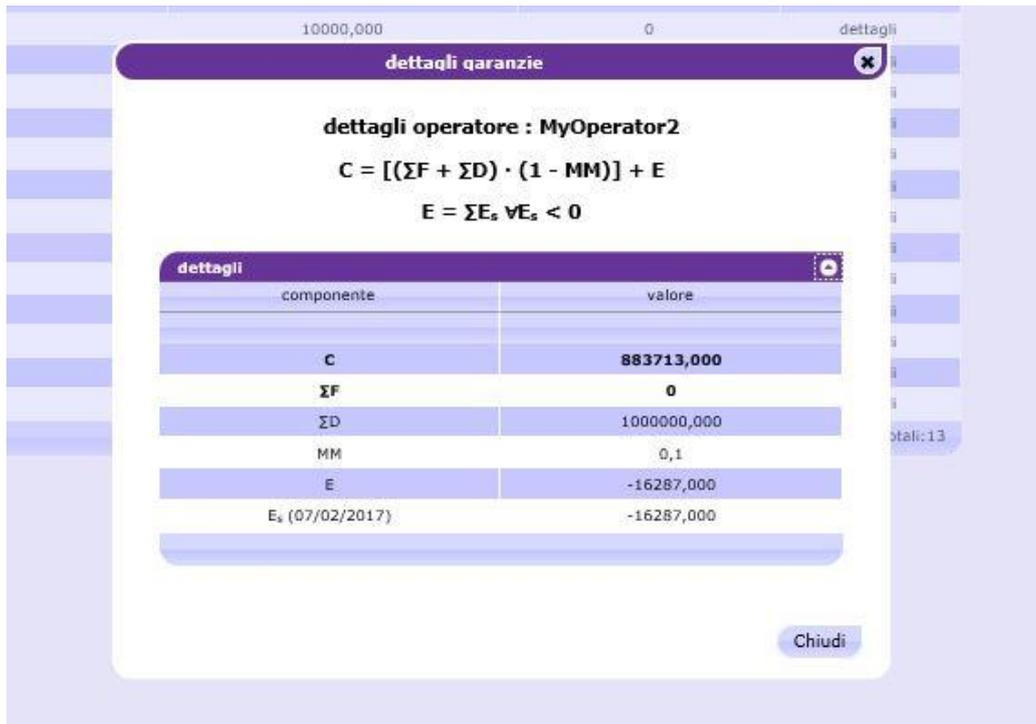


Figure 95: details of the financial guarantee.

UPLOADING THE XML FILES

Through the [upload](#) page, the User can directly upload the xml file for submission/modification of the bids/offers or for change of the bids/offers (Figure).

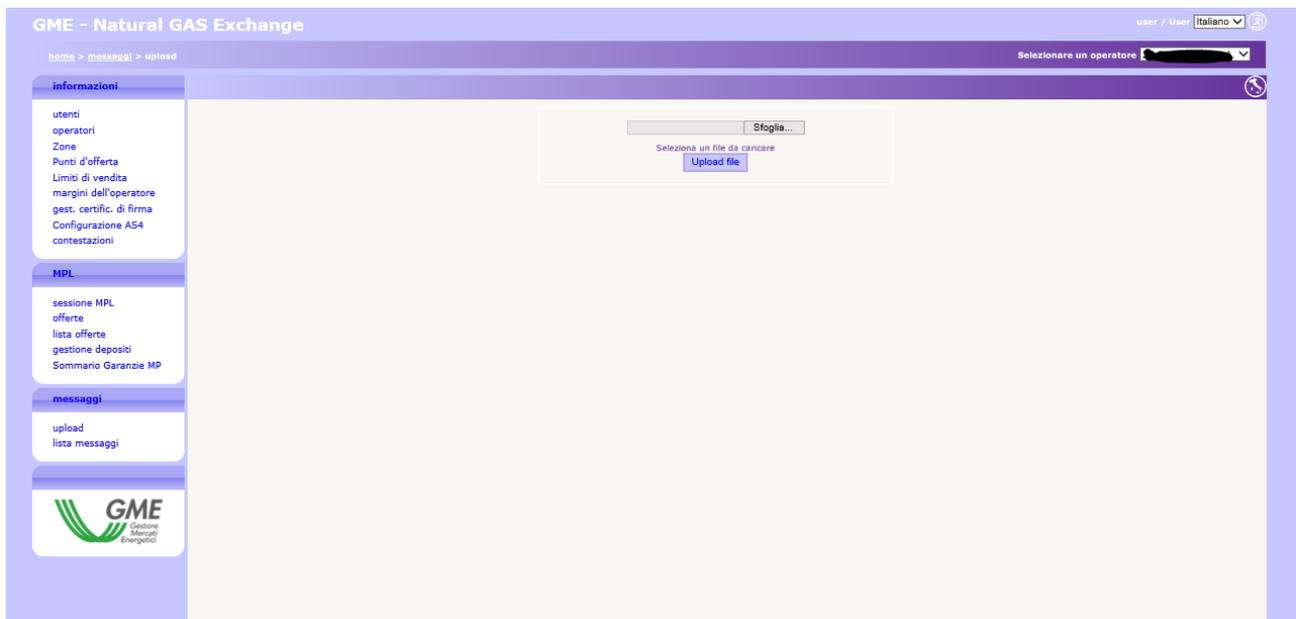


Figure 96: uploading xml files.

The User must prepare the xml file with a dedicated editor and then arrange the upload by selecting the file, by signing the content and proceeding with the submission of the transaction.

MESSAGES LIST

Any action submitted by the User to the MPL system through the web pages described above, takes the form of an XML file, stored in the database and then processed by the platform. Every action filed on the system generates a result (called **Functional Acknowledgment, FA**), also in the form of XML files, whatever the outcome of the action accomplished.

The list of xml transactions submitted and the relevant result are displayed in the [messages list](#).

id msg #	id messaggio out	Contenuto	Oggetto del messaggio	Stato del messaggio	op.	codice utente	Nome file	timestamp	Transazione	elab. time
581927	1462320	Visualizza	DisputeMessages	OUT	00041	user	DisputeMessages.xml	20/12/2019 03:30:19	1 \ 1	00.00
	1461462		ZonaIMR	OUT	00041		ZonaIMR_1b7726d7cd24aa7	18/12/2019 09:58:39		
	1458010		MBBN	OUT	00041		MBBN_98frc5cae1ff74aa6a1b	28/11/2019 03:01:55		
	1458023		ZonaIMR	OUT	00041		ZonaIMR_49da1268cad54856	28/11/2019 03:01:55		
528657	1458003	Visualizza	Offers	OUT	00041	emanuele.malter	Offers.xml	28/11/2019 02:59:37	1 \ 1	00.01
526344	1454515	Visualizza	Offers	OUT	00041	emanuele.malter	Offers.xml	08/11/2019 02:09:02	0 \ 1	00.00
529907	1453871	Visualizza	Offers	OUT	00041	emanuele.malter	Offers.xml	31/10/2019 11:52:50	1 \ 1	00.11

Figure 97: the messages list.

The page is organized as follows: the first column displays the unique ID attributed to the input xml message, produced by User interaction with the portal pages. Clicking the number representing the ID, you can download the XML file showing all the input parameters that have originated the transaction.

The second column, in the same way, returns the file ID of the outcome of the transaction. By clicking the number, you can download the FA, in xml format. The third column shows the link to the content digitally signed, or the piece of HTML code that makes up the preview of every action, submitted immediately before the action (that reported for example in Figure).

Then they are displayed the message subject and especially the status of the message that can vary between the following:

- **IN**: submitted and stored but not yet processed message.
- **ERR**: bad formed or incorrect content message.
- **RUN**: message being processed.
- **OUT**: processed message (failed or successful).

The remaining columns show information such as the User and the Participant who submitted the transaction, the xml file name, the date and time of submission, the number of transactions processed successfully, and the processing time, in minutes and seconds..

Among the page filters, there is a *checkbox* called **mark** (Figure). If selected, it causes the system to mark the outcome file as downloaded. This action has impact on download of files via web service, because the system will ignore the already downloaded files, returning only those that are still not being examined by the User. By downloading an XML file interface, with **mark checkbox** selected, will result in failure to download the same file through web service.

data inizio : 21/10/2013 data fine : 23/10/2013 Mark:

lista messaggi

Id messaggio	Id messaggio out	Contenuto	Oggetto del messaggio	Stato del messaggio	op.	codice utente	Nome file	Timestamp	Transazione	ela
				Select Message				21/10/2013 - 23/10/2013		
1582			MBBN	OUT		44453254	MBBN_ec74abb8ea1d4652	22/10/2013 02.19.33		

Figure 98: the messages list filters.

We have seen how every action (input xml transaction) matches a result xml file (FA). The [messages list](#) displays also result files other than the FAs, which does not correspond to any input file. Figure 88 first line, shows a **Bid Notification (BN)** that reports the outcome of a combination of an offer/bid of the Participant.

Another type of result file is the **Zonal Market Result**, which shows the aggregate results for each area supported by the market.

THE FEATURES ALLOWED BY THE MAST PORTAL

In this section shows the features offered by the MAST portal. First of all, the user must be entitled to the portal.

THE HOME PAGE

Figure 66 shows the main page of the portal. It lists the four main areas, always available, whatever the page opened by the user.

USER DETAILS AND LOGOUT

Area (1) shows the name of the authenticated user and his role (**user, viewer**). Next to it there is a drop-down menu that allows you to choose the language of the contents of the portal. The content of the pages will be translated on the basis of the selected language. In addition to the translation of the textual parts, the change of language also entails displaying the date in Italian (it-IT) or English (en-US) format and the decimal separator for the figures: the comma (",") for Italian and the dot (".") for English.

By clicking on the icon  on the right you can leave the portal, closing the session. At this point the user must authenticate again to access the portal.



Figure 99: main page of the portal

ENTITLED PARTICIPANTS

Section (2) shows a drop-down menu containing all the participants entitled to operate on the MAST, under the responsibility of the current user. The operations that the user carries out on the portal, such as the submission of bids/offers, are associated with the operator selected in that menu.

THE MENU

In section (3) there is the menu containing the link to all the pages that the user can reach. There is an **information** section where all the pages containing information useful to users are grouped. The MAST section contains the pages for submitting and monitoring the bids/offers and the results of the market sessions, and the read-only pages that display the management of deposits and the summary of participants' guarantees.

Finally, the **messages** section contains the pages for uploading the xml files and the list of input and output messages pertaining to the participants associated with the user.

THE MAIN CONTENT

The last section, (4), shows the content of the pages. The home page, namely the page shown in Figure 66, is the page that contains communications to participants.

FILTERS AND REPORTS

Before analysing the pages of the portal, it is necessary to illustrate a feature common to all the pages showing a report.

nome prodotto	id sessione	q.tà MWh/g	Quantità scambiata MWh/	qtà rifiutata MWh/€	tipo	prezzo €	pr. acc.	contro	data	op.	stato	utenti	id off	refere	note	predC
Nessuna riga da visualizzare																

Figure 100: filters and Excel reports

Each page with reports has a filter section that does not usually appear when opening the page. To display it, you need to click on the  icon of the group at the top right. Conversely, to hide it, you must click on the icon  instead. Here you can see the section of filters where, in general, it is possible to insert values that aim to limit the number of results provided by the report below. To reload the report taking into account the appropriate filters, click on . Finally, you can export the report in Excel format by clicking on . After clicking, the page asks to save the report in Excel format, reporting all the results, without obviously paging them, as happens on the web page.

THE USERS PAGE

The users page shows the list of participants entitled to operate on MAST. The page is read-only and contains only the information regarding the company name and the participant code.

GME - Natural GAS Exchange user / User Italiano

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messaggi

- upload
- lista messaggi



codice utente	nome	cognome	Descrizione	tel.	email	certificato	cert. di firma	operatori	abili	refresh
[redacted]	[redacted]	[redacted]	User			infocert auth AC	infocert sign AC	2B ENERGIA S.P.A.	<input checked="" type="checkbox"/>	10
[redacted]	[redacted]	[redacted]	User			infocert auth AC	infocert sign AC	2B ENERGIA S.P.A.	<input checked="" type="checkbox"/>	10
[redacted]	[redacted]	[redacted]	User			ACT	ACT	2B ENERGIA S.P.A.	<input checked="" type="checkbox"/>	10
[redacted]	[redacted]	[redacted]	User			infocert auth AC	infocert sign AC	2B ENERGIA S.P.A.	<input checked="" type="checkbox"/>	10
[redacted]	[redacted]	[redacted]	User		[redacted]	ACT	ACT	2B ENERGIA S.P.A.	<input checked="" type="checkbox"/>	10
[redacted]	[redacted]	[redacted]	User		[redacted]	ACT	ACT	2B ENERGIA S.P.A.	<input checked="" type="checkbox"/>	10
[redacted]	[redacted]	[redacted]	User		[redacted]	infocert auth AC	ACT	2B ENERGIA S.P.A.	<input checked="" type="checkbox"/>	10
[redacted]	[redacted]	[redacted]	User			infocert auth AC	infocert sign AC	2B ENERGIA S.P.A.	<input checked="" type="checkbox"/>	10
[redacted]	[redacted]	[redacted]	User			ACT	ACT	2B ENERGIA S.P.A.	<input checked="" type="checkbox"/>	10
[redacted]	[redacted]	[redacted]	User			infocert auth AC	ACT	2B ENERGIA S.P.A.	<input checked="" type="checkbox"/>	10
[redacted]	[redacted]	[redacted]	User			infocert auth AC	infocert sign AC	2B ENERGIA S.P.A.	<input checked="" type="checkbox"/>	10
[redacted]	[redacted]	[redacted]	User			infocert auth AC	infocert sign AC	2B ENERGIA S.P.A.	<input checked="" type="checkbox"/>	10
[redacted]	[redacted]	[redacted]	User			infocert auth AC	infocert sign AC	2B ENERGIA S.P.A.	<input checked="" type="checkbox"/>	10
[redacted]	[redacted]	[redacted]	User			infocert auth AC	infocert sign AC	2B ENERGIA S.P.A.	<input checked="" type="checkbox"/>	10

Pagina: 1 - N° totale pagine: 1 - 110 Righe per pagina - Righe da 1 a 14 - N° di righe totali: 14

Figure 101: The list of users entitled to the participant

PARTICIPANTS PAGE

The PARTICIPANTS page shows the list of participants entitled to operate on MAST. The page is read-only and contains only the information regarding the company name and the participant code.

ragione soc.	cod. operatore	abilitato	conti
Royalties EDISON SPA	r00008	<input checked="" type="checkbox"/>	conto corrispettivi MGAS: V1(0,00) Conto Attivo GME MGAS: V1(0,00) Conto Passivo GME MGAS: A1(0,00) conto corrispettivi MB: V1(0,00) Conto Attivo GME MB: 00(0,00) Conto Passivo GME MB: 00(0,00) conto corrispettivi P-GAS: V1(0,00)
Royalties ENI S.P.A.	r00018	<input checked="" type="checkbox"/>	conto corrispettivi MGAS: V1(0,00) Conto Attivo GME MGAS: V1(0,00) Conto Passivo GME MGAS: A1(0,00) conto corrispettivi MB: V1(0,00) Conto Attivo GME MB: 00(0,00) Conto Passivo GME MB: 00(0,00) conto corrispettivi P-GAS: V1(0,00)
Royalties SHELL ITALIA E&P SPA	r50035	<input checked="" type="checkbox"/>	conto corrispettivi MGAS: V1(0,00) Conto Attivo GME MGAS: V1(0,00) Conto Passivo GME MGAS: A1(0,00) conto corrispettivi MB: V1(0,00) Conto Attivo GME MB: 00(0,00) Conto Passivo GME MB: 00(0,00) conto corrispettivi P-GAS: V1(0,00) Conto corrispettivi PBZ: V1(0,00) Conto attivo PBZ: 00(0,00) Conto passivo PBZ: 00(0,00)
Royalties SOCIETA' ADRIATICA IDROCARBURI	r50010	<input checked="" type="checkbox"/>	conto corrispettivi MGAS: V1(0,00) Conto Attivo GME MGAS: 00(0,00) Conto Passivo GME MGAS: 00(0,00) conto corrispettivi MB: V1(0,00) Conto Attivo GME MB: 00(0,00) Conto Passivo GME MB: 00(0,00) conto corrispettivi P-GAS: V1(0,00) Conto corrispettivi PBZ: V1(0,00) Conto attivo PBZ: 00(0,00) Conto passivo PBZ: 00(0,00)

Figure 102: list of participants entitled to the platform

ADDING A NEW SIGNATURE CERTIFICATE

Through the signature management link, you CAN access the page that offers users the possibility to manage their signature certificate. If the user does not have a signature certificate, the page looks like in Figure 11; the Add link allows the user to add a certificate.

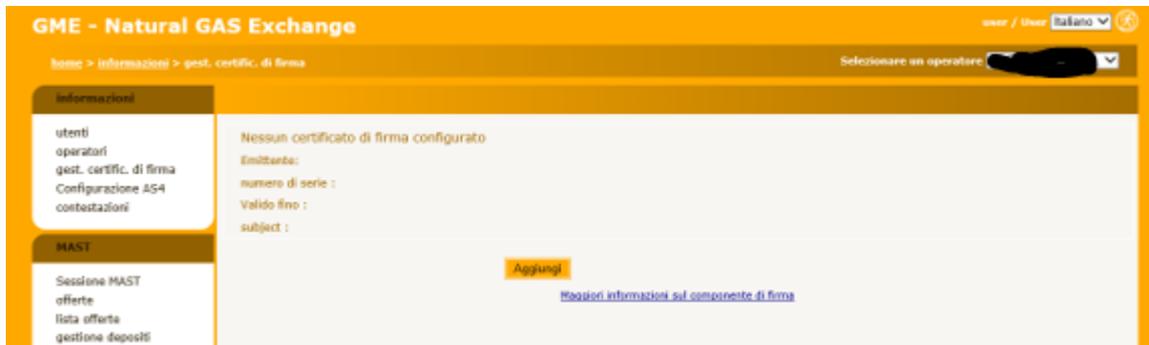


Figure 103: the user does not have a signature certificate. The page allows you to add one.

By clicking on the Add link, you can choose, among the certificates installed on the user's computer, the one you wish to use to sign the transactions being uploaded on the system, as shown in Figure 12.

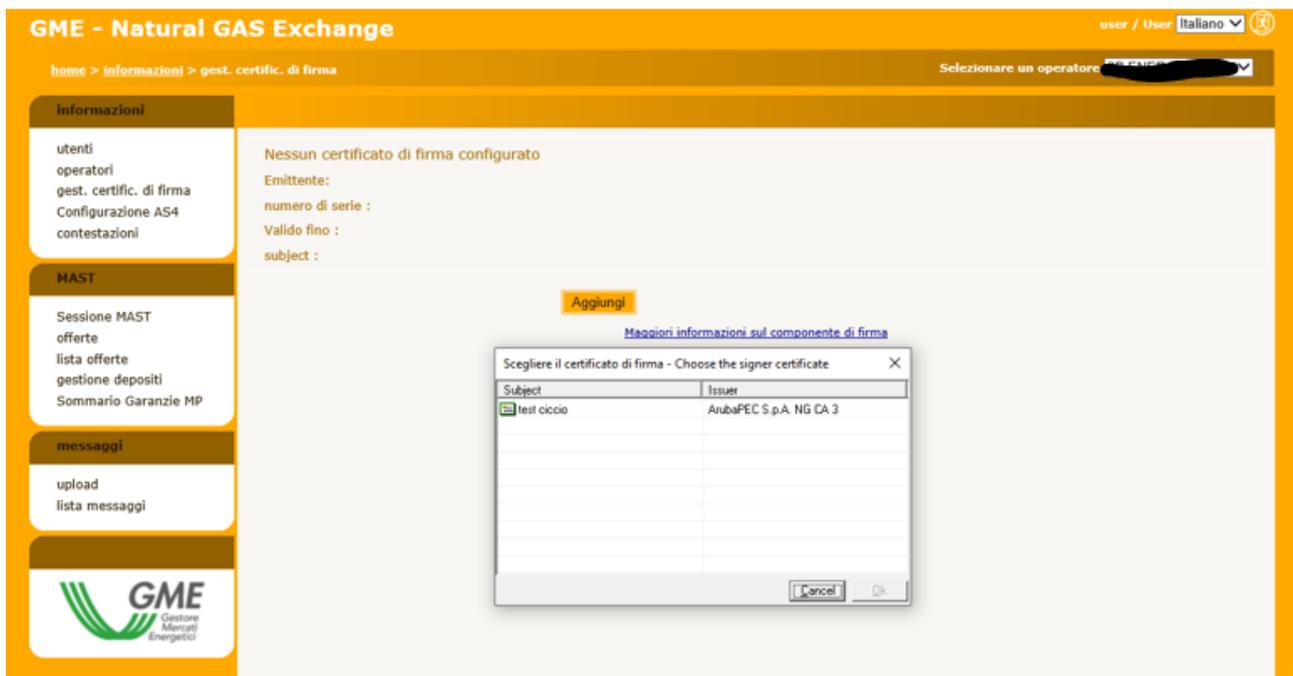


Figure 54: insertion of a new certificate

Once the certificate has been selected, its details are shown on the page. At this point, the user must confirm the insertion of the certificate by clicking on the **Save** link.

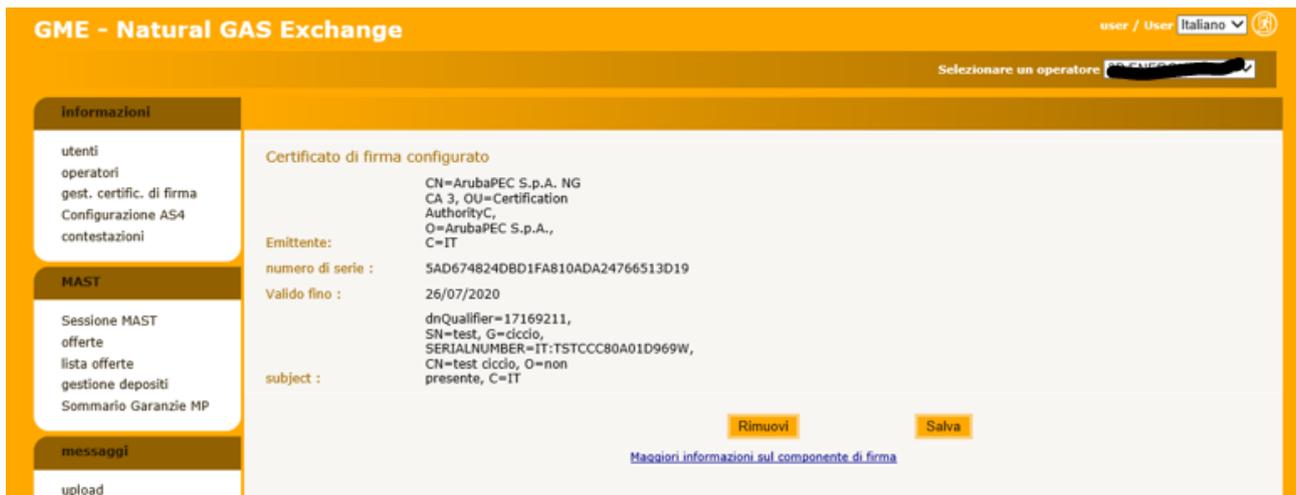


Figure 65: details of the certificate being inserted

Once the certificate has been inserted, before it can be used in transactions, it must be authorized by the portal administrator.

COMPLAINTS

- Figure shows the page of the complaints through which you can monitor the progress of the claims. Any complaint can be inserted and then updated by associating new messages. You can see the list of all the complaints made by Participant, in particular: The title of the complaint, the state, the company code (Participant) which the complaint relates, the User who submitted the complaint, the timestamp indicating the time of submission and then a link relating to: The messages associated with the selected complaint
- Possibility to add a new message to the already open complaint.



Figure 106: complaints page.

By using the icon  you can then open the window to add a complaint, as shown in Figure 72.

Figure 107: the page for inserting complaints

MAST SESSION

By clicking on MAST session you open the page showing the market sessions of the current day and the previous three days (Figure 83). The information displayed regarding the session flow date, the session opening and closing dates, the session status, the aggregated results (including the SRG TSO bid/offer) and finally the button that allows you to view the net positions separated by operator and by offer point. From the first box of the "flow date" column, however, you can select any session or range of past sessions by flow date.

id sessione	note	data flusso	apertura	chiusura	stato	risultato	settings
18081	SESSION MGP 28/11/2019 10:20	30/11/2019	28/11/2019 08:00	29/11/2019 13:30	APERTA		
18082	SESSION MI 28/11/2019 11:17	29/11/2019	28/11/2019 08:00	29/11/2019 13:30	TERM		
18077	SESSION MGP 28/11/2019 13:30	29/11/2019	27/11/2019 08:00	28/11/2019 13:30	TERM		
18078	SESSION MI 28/11/2019 13:30	28/11/2019	27/11/2019 08:00	28/11/2019 13:30	TERM		
18073	SESSION MGP 26/11/2019 11:59	28/11/2019	26/11/2019 08:00	26/11/2019 11:59	TERM		
18074	SESSION MI 26/11/2019 11:13	27/11/2019	26/11/2019 08:00	27/11/2019 13:30	TERM		
18064	SESSION MGP 25/11/2019 12:55	27/11/2019	25/11/2019 08:00	25/11/2019 15:00	TERM		
18065	SESSION MI 25/11/2019 13:17	26/11/2019	25/11/2019 08:00	25/11/2019 15:00	TERM		

Figure 108: the MAST session page.

SUBMITTING BIDS/OFFERS

The bids/offers page allows you to manage your bids/offers for a specific market session, i.e. sending, changing and revoking. The page looks like Figure 74.

On analyzing the page, we notice, at the top, a drop-down menu with the list of sessions open to the submission of bids/offers. Once the session has been selected, you can send (and generally manage) the specific bids/offers of that session through the vector of the maximum number of allowed bids/offers that can be filled in by the user.

The bids/offers will be considered valid during the execution phase only when having opposite sign compared to the sign of the net balance of the bids/offers submitted by SRG TSO.

Figure 109: the page for submitting bids/offers

SUBMITTING ONE OR MORE BIDS/OFFERS

Figure 75 shows an example of sending of two offers/bids: a sale offer/bid and a purchase offer/bid. To send, you must previously select an offer/bid point and fill the fields related to the price and quantity (expressed in MW).

Figure 110: submission of one or more bids/offers.

Pressing "sign and send", you proceed with the phase of the transaction signature. There are all the details that characterize the offer/bid. Moreover also it shows the operation performed (in this case "enter"); then you will see other possible operations.



Figure 111: signing and submitting two bids/offers

After the sending of transactions, you can monitor the results of the transactions by clicking the "Upload FA" button, as shown in Figure 25. Figure 77. When the Functional Acknowledgment will be available, you will see a link that lets you download the xml file locally. You can still review the outcome of the transaction at any time, via the messages list page.



Figure112: loading the FA

Now, reloading the page and selecting the previously selected offer/bid point for the submission of bids/offers, you can view the bids/offers already submitted in the offer/bid vector (figure 78). For these offers/bids, it is also enhanced the first field (offer/bid ID), indicating the unique identifier characterizing each offer/bid on the system). The overlying summary boxes are enhanced simultaneously with the offers/bids submitted to the system.

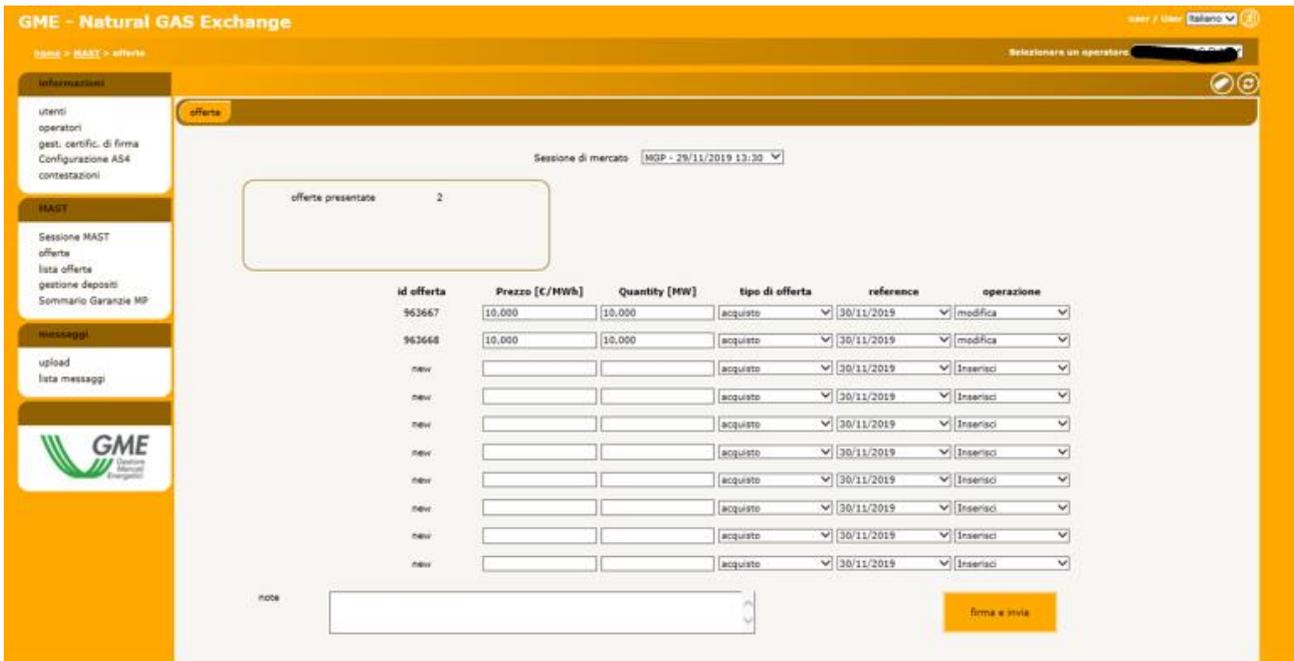


Figure 113: bids/offers already submitted

MODIFICATION AND REVOCATION OF BIDS/OFFERS

In Figure 79 it is important to note that for each element of the vector containing a bid/offer already submitted, you can carry out a couple of operations, through the last drop-down menu: modification and revocation.

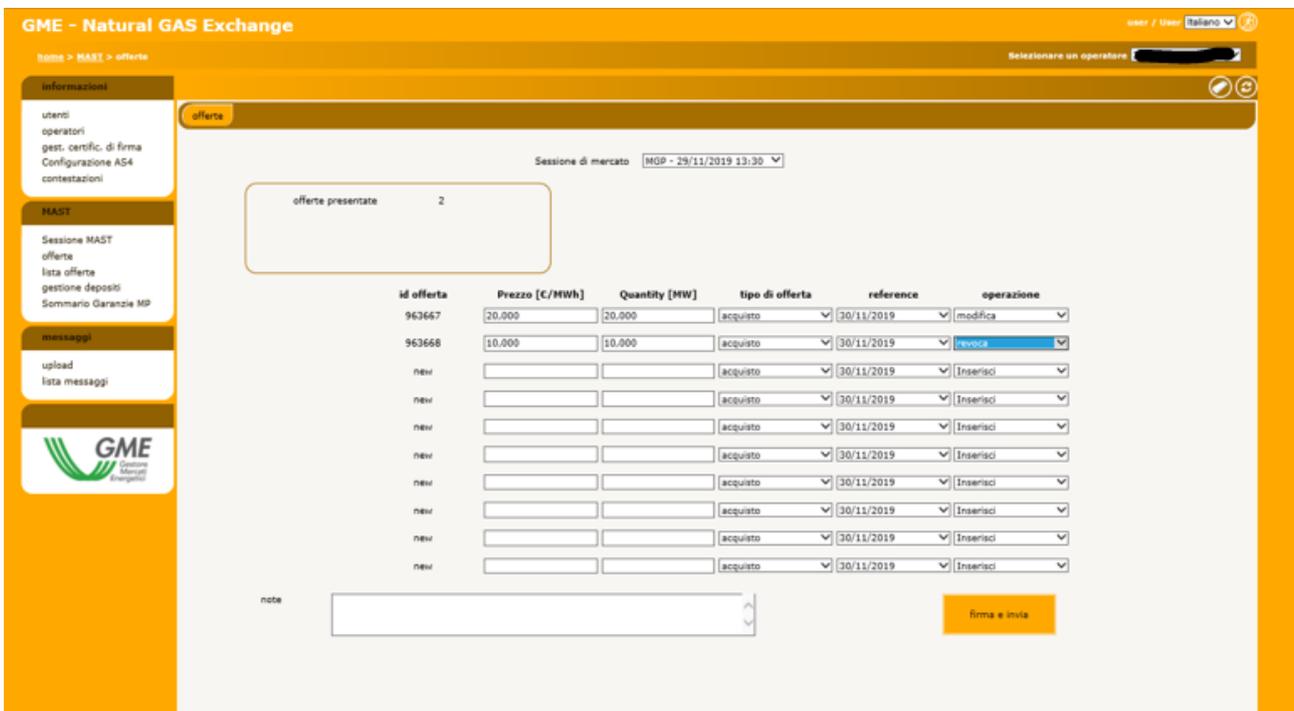


Figure 114: modification and revocation of bids/offers

In Figure 80, as an example, we consider the first bid/offer and change the quantity of the second bid/offer (expressed in MW). We then proceed with the sending. The summary box that must be digitally signed shows the two operations separately. The offer id field is also valued.

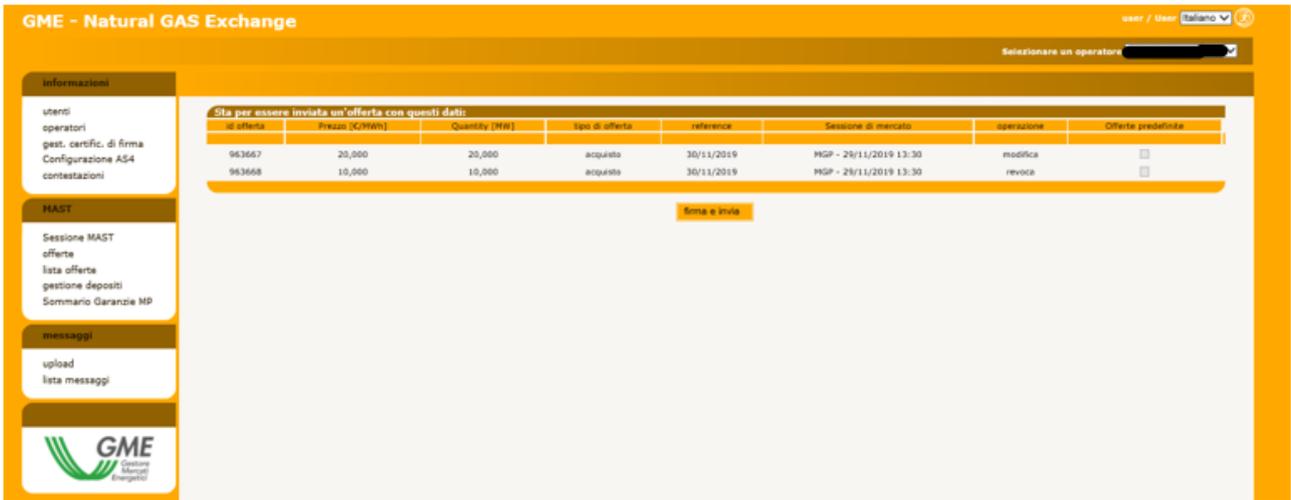


Figure 115: confirmation of the modification and revocation

SUBMITTING OTHER BIDS/OFFERS

If there are already bids/offers in the bid/offer vector, you can submit additional bids/offers without changing existing ones. This ensures that pre-existing bids/offers do not lose time priority.

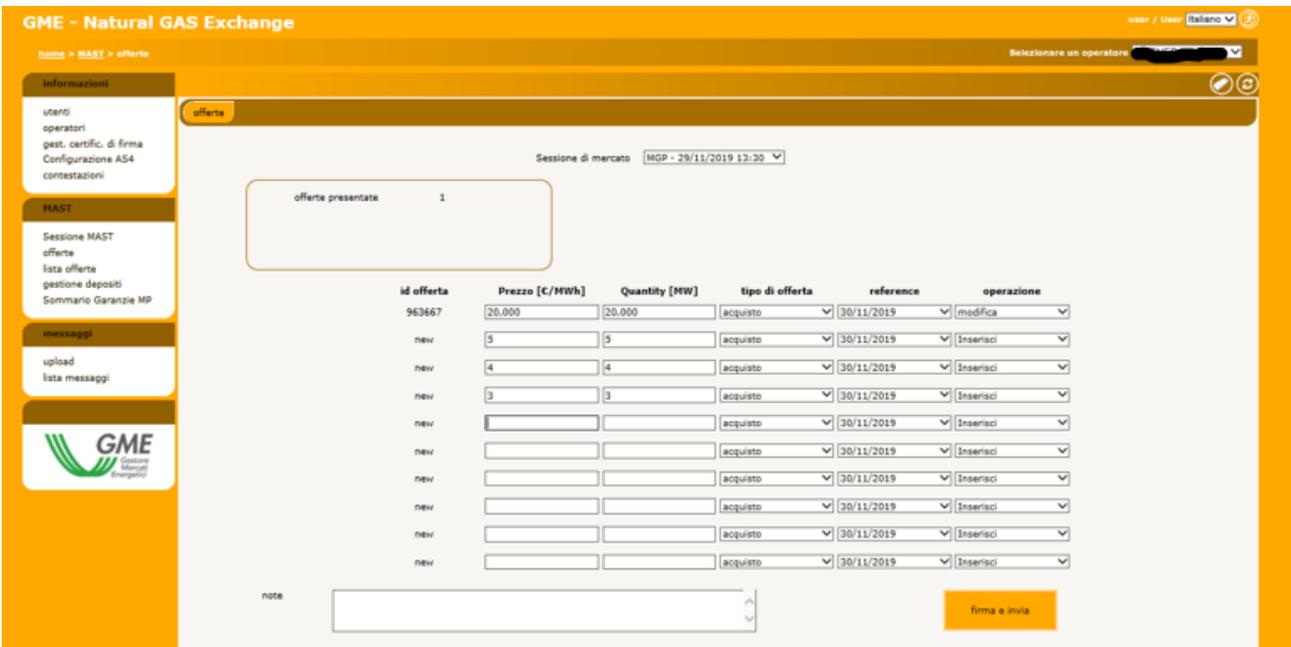


Figure 116: submitting other bids/offers.

LIST OF BIDS/OFFERS

The bids/offers list page shown in Figure 82 shows the bids/offers for the selected participant.

The screenshot shows the GME - Natural GAS Exchange interface. The main content is a table titled "lista offerte" with the following columns: q.tà MWh/g, Quantità scamb, qtà rifiutata MWh/g, tipo, prezzo €, pr. acc., contron, data, op., stato, utent, id off, refer, note, and predC. The table lists 9 bid entries for the date 30/11/2019 00:00:00, with various quantities and prices.

q.tà MWh/g	Quantità scamb	qtà rifiutata MWh/g	tipo	prezzo €	pr. acc.	contron	data	op.	stato	utent	id off	refer	note	predC
72,000	0,000	0,000	acquisto	3,000		216,00€	30/11/2019 00:00:00	00041	sottomi	user	96367	30/11		
96,000	0,000	0,000	acquisto	4,000		384,00€	30/11/2019 00:00:00	00041	sottomi	user	96367	30/11		
120,000	0,000	0,000	acquisto	5,000		600,00€	30/11/2019 00:00:00	00041	sottomi	user	96366	30/11		
240,000	0,000	0,000	acquisto	10,000		2400,0€	30/11/2019 00:00:00	00041	revocat	user	96366	30/11		
480,000	0,000	0,000	acquisto	20,000		9600,0€	30/11/2019 00:00:00	00041	sottomi	user	96366	30/11		
240,000	0,000	0,000	vendita	10,000		2400,0€	30/11/2019 00:00:00	00041	revocat	user	96366	30/11		
480,000	0,000	0,000	acquisto	10,000		4800,0€	30/11/2019 00:00:00	00041	revocat	user	96366	30/11		
480,000	0,000	0,000	acquisto	20,000		9600,0€	30/11/2019 00:00:00	00041	revocat	user	96366	30/11		
240,000	0,000	0,000	acquisto	10,000		2400,0€	30/11/2019 00:00:00	00041	revocat	user	96366	30/11		

Figure 117: list of bids/offers.

Details are provided such as: the quantity (expressed in MWh/day), the quantity traded (valued only after market execution and always expressed in MWh/day), the quantity rejected for exceeding sales limits (valued only after the market execution and always expressed in MWh/day), the type of bid/offer (sale or purchase), the submitted price, the accepted price (valued only after market execution), the value of the bid/offer, the creation date of the bid/offer, the status of the offer, the user who sent it, the bid/offer id and any notes.

With regard to net positions, only participants responsible for the user currently authenticated on the system are shown.

GUARANTEE MANAGEMENT

On the “[gestione garanzie](#)” (guarantee management) page, you may view the situation of the financial guarantees relating to the forward gas market (MT) for the participants that you represent.

The first report shows data such as the code and registered name of the participant, the initial amount of the financial guarantee and the last date of payment and the last paid date.

By clicking on  you will open the underlying report, with details about the financial guarantees and the credit/debit adjustments.

GME - Natural GAS Exchange

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GME
Gestione Mercati Energetici

gestione depositi

op. ↕	ragione sociale	Quantità iniziale	ultima data in pagamento	ultima data pagata
00041	2B ENERGIA S.P.A.	5000,000 ?	17/11/2019	03/11/2019

N° di righe totali:1

dettagli operatore : 2B ENERGIA S.P.A.

visualizza garanzie chiuse

mkplDetail

AccountActivityId ↕	Descrizione movimen	Quantità iniziale	validità	Note	Data di flusso	Chiuso
782350	Adjustment	1000,000			28/11/2019	<input type="checkbox"/>
782351	Financial Guarantee	5000,000	tutte le garanzie		28/11/2019	<input type="checkbox"/>

Pagina 1 - N° totale pagine:1 - 110 Righe per pagina

Righe da 1 a 2 - N° di righe totali:2

Chiudi dettagli

Figure 118: deposit management

By checking the **show closed guarantees** box, you may view possible closed financial guarantees and credit/debit adjustments.

SUMMARY OF MP GUARANTEES

The page **“Sommaro garanzie”** (Summary of Guarantees) page allows you to view, yet not modify, the status of the financial guarantees relating to the forward market (MT) of participants that you represent (85) relating to the spot gas market. For each participant selected from the drop-down menu there are:

- in the section **“Sommaro garanzie MP”** (Summary of MP Guarantees) the initial guarantee (the amount of valid guarantees registered on the Netting platform, reduced by the Maintenance Margin of 3%); Guarantee Capacity (the difference between Initial Guarantee and Exposure); the Exposure (the exposure determined by all the positions held on all the platforms whose guarantee pertains to Netting);
- in the section **“Dettaglio Garanzie”** (Guarantees Detail) all the deposits and bank guarantees relating to the centralized Netting guarantee system and the credit and debit adjustment of the MP spot gas market;
- in the section **“Esposizione per data di settelement”** (Exposure by Settlement Date), all exposures divided by settlement date determined by all the positions held on all the platforms whose guarantee pertains to Netting, and the valid credits of the MP spot gas market only.

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Sommario Garanzie MP

Descrizione	Valore
Garanzia Iniziale	10.670.000
Capienza Garanzia	10.670.000
Esposizione	0

Sommario Garanzie al 28/11/2019 14:30:16

Dettaglio Garanzie

Tipo	Inizio Validità	Fine Validità	Importo	Importo Residuo
Deposito	01/01/0001	31/12/9999	970.000	970.000
Deposito	01/01/0001	31/12/9999	9.700.000	9.700.000
Credito	18/11/2019	01/12/2019	1.000	1.000

Dettaglio Garanzie al 28/11/2019 14:30:16

Esposizione per data di Settlement

Data di Settlement	Esposizione	
03/12/2019	1.000	dettagli

Esposizione per Data di Settlement al 28/11/2019 14:30:16

Figure 119: summary of guarantees

By clicking on **details**, you may view a pop-up containing the details of the financial guarantee formulas, in which all items and the relative amount can be identified (Figure 86).

dettagli Esposizione

Data di Settlement : 03/12/2019

dettagli

Data di flusso	Esposizione
28/11/2019	1.000

Chiudi

Figure 120: details of the financial guarantee.

UPLOADING THE XML FILES

Through the [upload](#) page, the User can directly upload the xml file for submission/modification of the bids/offers or for change of the bids/offers (Figure).



Figure 121: upload of xml file.

The User must prepare the xml file with a dedicated editor and then arrange the upload by selecting the file, by signing the content and proceeding with the submission of the transaction.

MESSAGES LIST

Any action submitted by the User to the MPL system through the web pages described above, takes the form of an XML file, stored in the database and then processed by the platform. Every action filed on the system generates a result (called **Functional Acknowledgment, FA**), also in the form of XML files, whatever the outcome of the action accomplished.

The list of xml transactions submitted and the relevant result are displayed in the [messages list](#).

id msg	Id messaggio	Contenuto	Oggetto del messag	Stato del messa	op.	codice uten	Nome file	timestamp	Transazio	elab. tim
	1457996		MBBN	OUT	00041		MBBN_b41380d4e3	28/11/2019 02:5		
578645	1457987	Visualizza	Offers	OUT	00041	user	Offers.xml	28/11/2019 02:1	4 \ 4	00.00
578644	1457986	Visualizza	OffersChangeStatus	OUT	00041	user	Offers.xml	28/11/2019 02:1	1 \ 1	00.01
578643	1457985	Visualizza	Offers	OUT	00041	user	Offers.xml	28/11/2019 02:1	1 \ 1	00.01
578642	1457984	Visualizza	Offers	OUT	00041	user	Offers.xml	28/11/2019 02:1	2 \ 2	00.01
578641	1457983	Visualizza	OffersChangeStatus	OUT	00041	user	Offers.xml	28/11/2019 02:1	2 \ 2	00.03
578640	1457982	Visualizza	Offers	OUT	00041	user	Offers.xml	28/11/2019 02:1	2 \ 2	00.00
578639	1457981	Visualizza	OffersChangeStatus	OUT	00041	user	Offers.xml	28/11/2019 02:1	2 \ 2	00.03
578636	1457976	Visualizza	Offers	OUT	00041	user	Offers.xml	28/11/2019 01:5	2 \ 2	00.01
578631	1457970	Visualizza	DisputeMessages	OUT	00041	user	DisputeMessages.xml	28/11/2019 12:0	1 \ 1	00.02

Figure 122: message list.

The page is organized as follows: the first column displays the unique ID attributed to the input xml message, produced by User interaction with the portal pages. Clicking the number representing the ID, you can download the XML file showing all the input parameters that have originated the transaction.

The second column, in the same way, returns the file ID of the outcome of the transaction. By clicking the number, you can download the FA, in xml format. The third column shows the link to the content digitally signed, or the piece of HTML code that makes up the preview of every action, submitted immediately before the action (that reported for example in Figure).

Then they are displayed the message subject and especially the status of the message that can vary between the following:

- **IN**: submitted and stored but not yet processed message.
- **ERR**: bad formed or incorrect content message.
- **RUN**: message being processed.
- **OUT**: processed message (failed or successful).

The remaining columns show information such as the User and the Participant who submitted the transaction, the xml file name, the date and time of submission, the number of transactions processed successfully, and the processing time, in minutes and seconds..

Among the page filters, there is a *checkbox* called **mark** (Figure). If selected, it causes the system to mark the outcome file as downloaded. This action has impact on download of files via web service, because the system will ignore the already downloaded files, returning only those that are still not being examined by the User. By downloading an XML file interface, with **mark checkbox** selected, will result in failure to download the same file through web service.



Figure 123: the messages list filters.

We have seen how every action (input xml transaction) matches a result xml file (FA). The [messages list](#) displays also result files other than the FAs, which does not correspond to any input file. Figure 88 first line, shows a **Bid Notification (BN)** that reports the outcome of a combination of an offer/bid of the Participant.