M-GAS USER GUIDE

30 December 2025

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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 (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/which will find here all the pages of the portal and the description of all the features that they may access.

TYPES OF USERS

The 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 to 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.
- **M-GAS 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) among the various platforms.

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

FEATURES OF 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**.

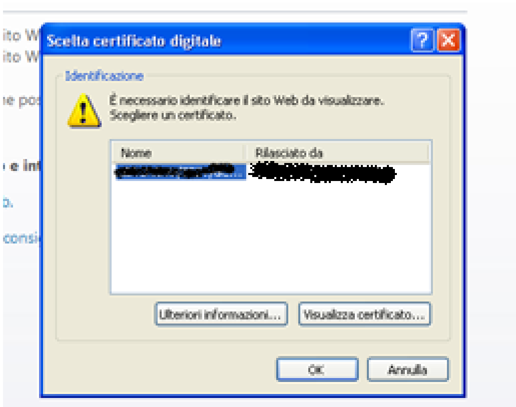


Figure 1: selection of authentication certificate

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.

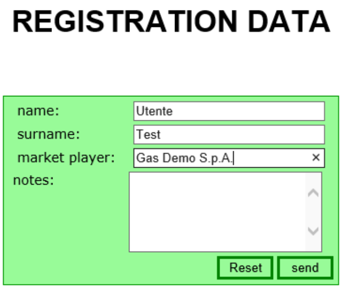


Figure 2: entry of key identification data

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 to support software certification, as explained later.

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.

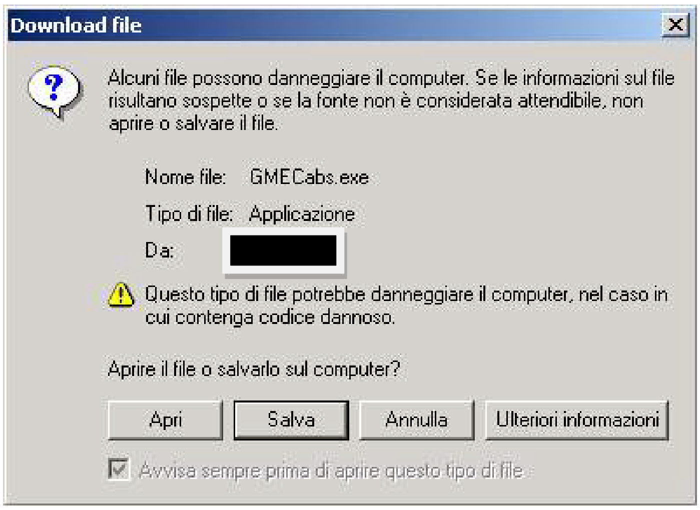


Figure 3: plug-in download

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

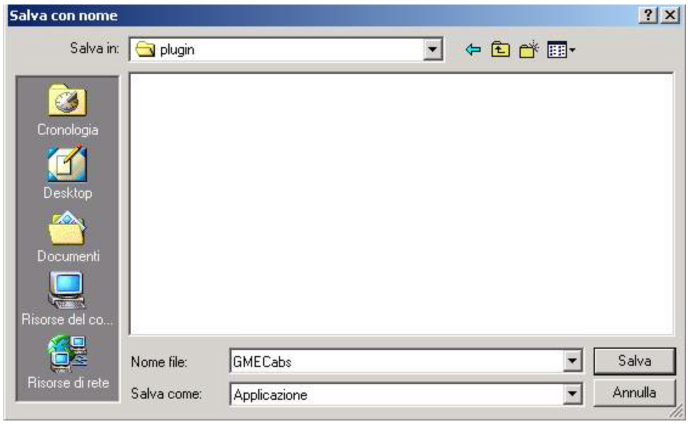


Figure 4: saving of installation file

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

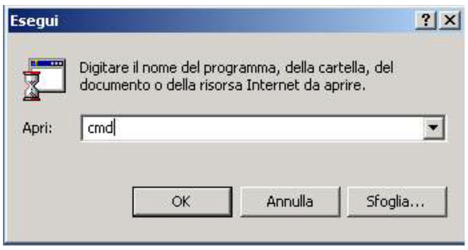


Figure 5: launching of MS-DOS window

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

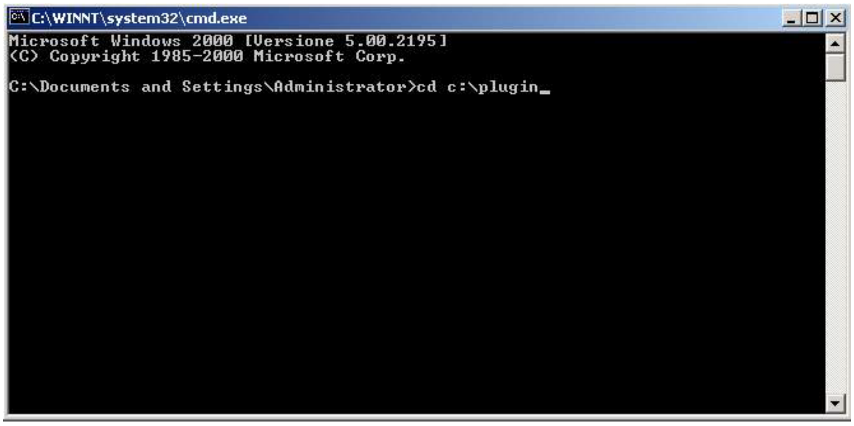


Figure 6: access to the installation file directory

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

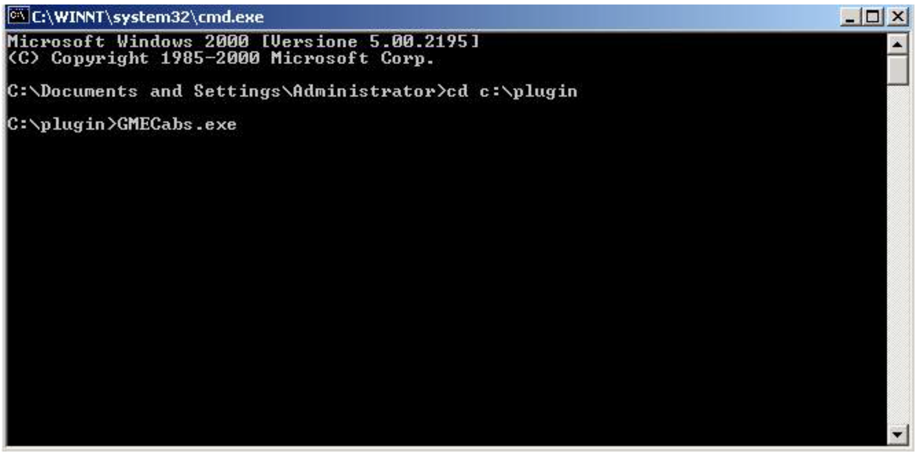


Figure 7: running of GMECabs.exe.

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

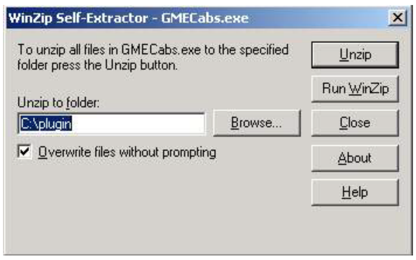


Figure 8: directory where the files will be extracted

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

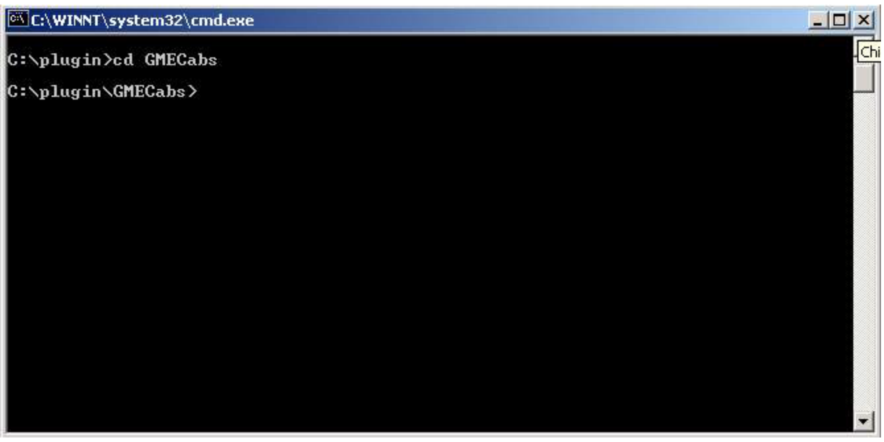


Figure 9: access to the GMECabs directory

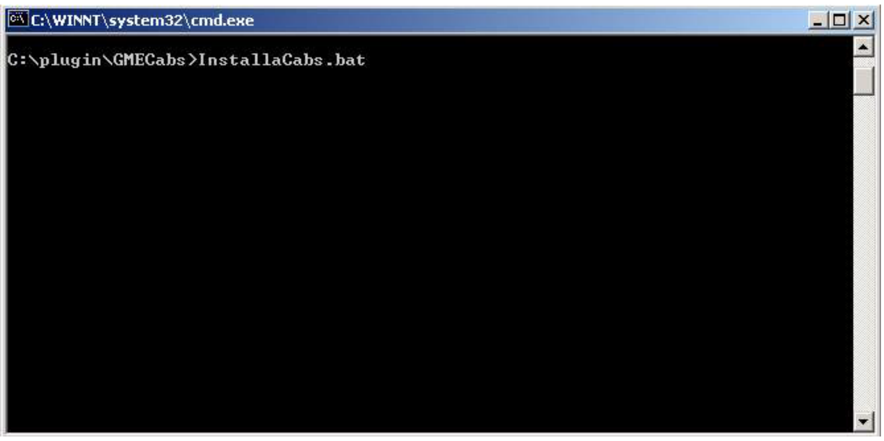


Figure 10: running of the .bat file.

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.

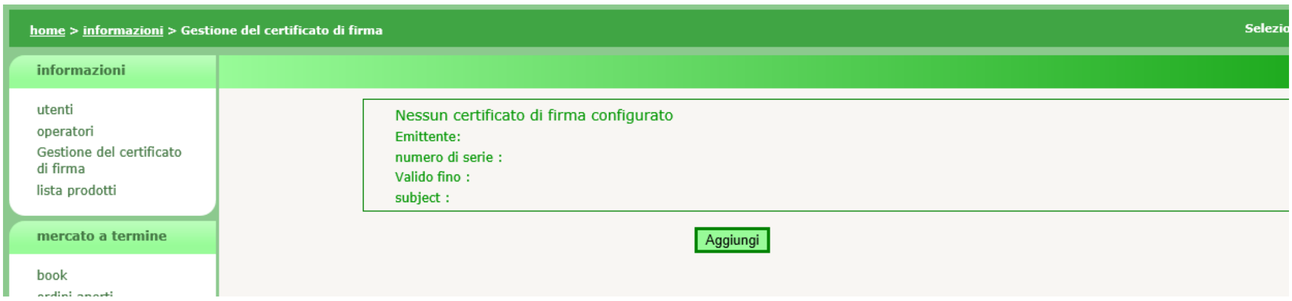


Figure 11: the user has no signature certificate but may add one on this page

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 must confirm the entry of the certificate, by clicking on **Salva** (save).

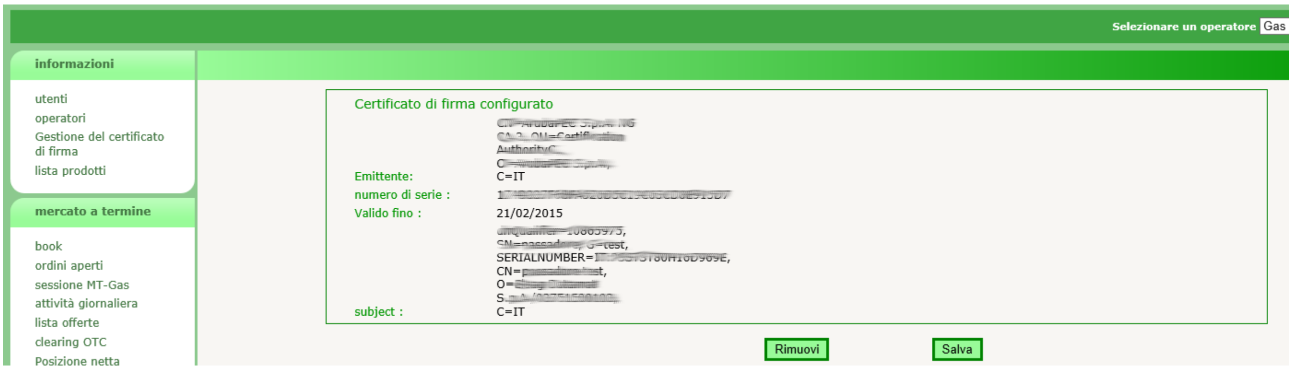


Figure 13: details of the certificate being entered

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

HOMEPAGE

Figure 14 displays the homepage 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 to 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 must authenticate yourself again.

Figure 14: homepage 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 gathers 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 homepage 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.

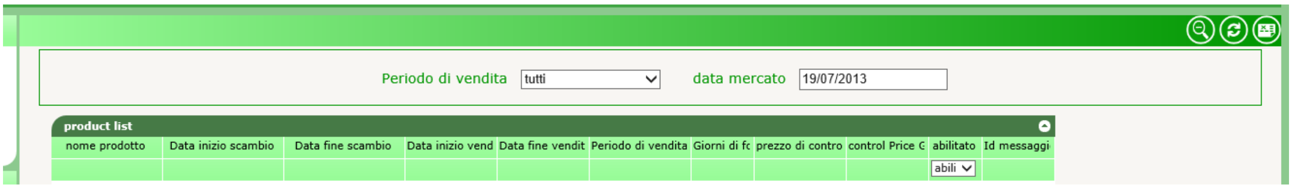


Figure 15: filters and Excel reports

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 considering 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.

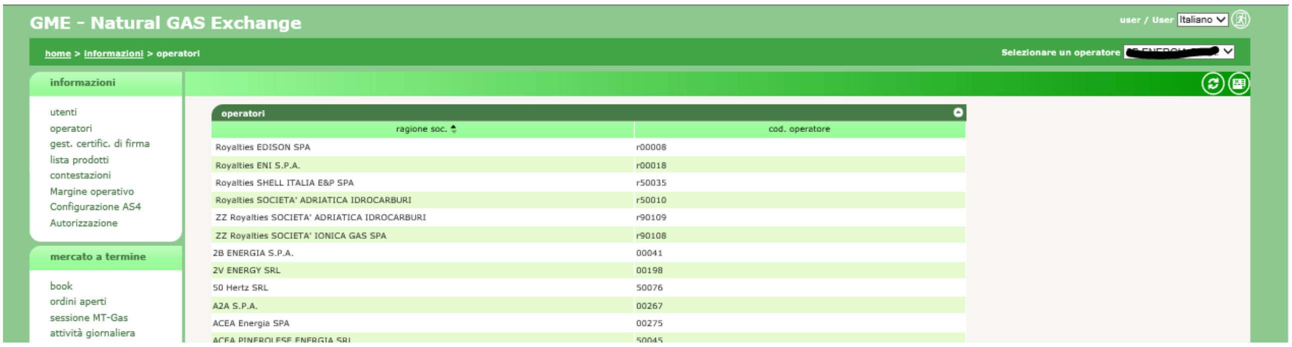


Figure 16: list of participants authorised to operate on the platform

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.

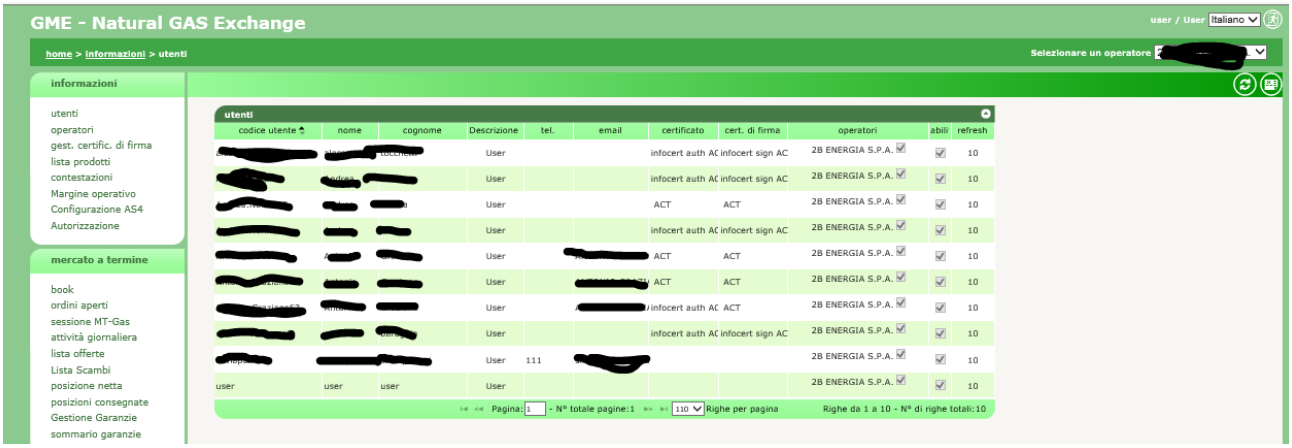


Figure 17: users' page

The data in the table is as follows: username, 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.

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.

COMPLAINTS

Figure 19 shows the complaints page through which you can monitor the progress of complaints. Any complaint can be inserted and then updated with new messages. You can see a list of all complaints made on behalf of a specific participant, and in particular: title of the complaint, its status, code of the company (participant) to which the complaint relates, the user who made the claim, the timestamp indicating the time of submission, and then a link to the messages associated with the selected complaint. Possibility to add a new message to the open complaint.

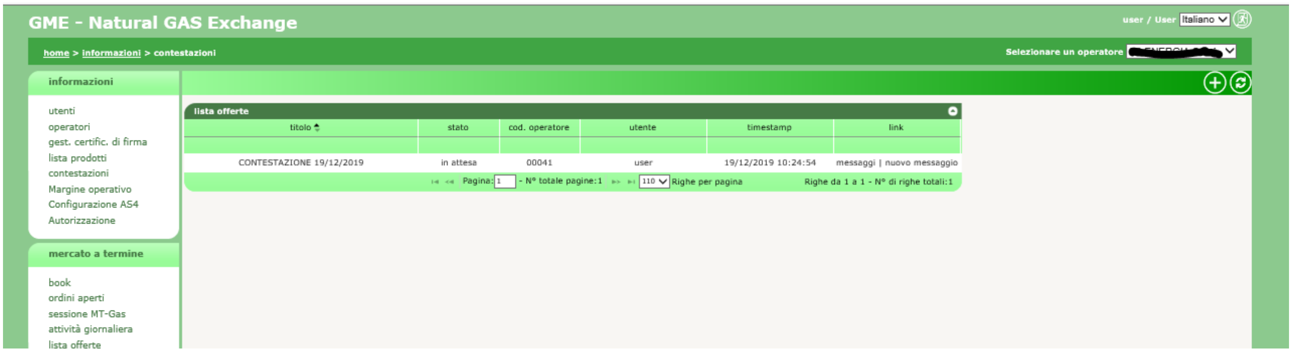


Figure 19: complaints

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

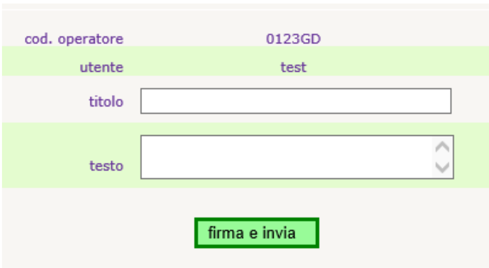


Figure 20: insertion of a new complaint

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 offers, if any, and the details of their volumes (expressed in MW) and prices.

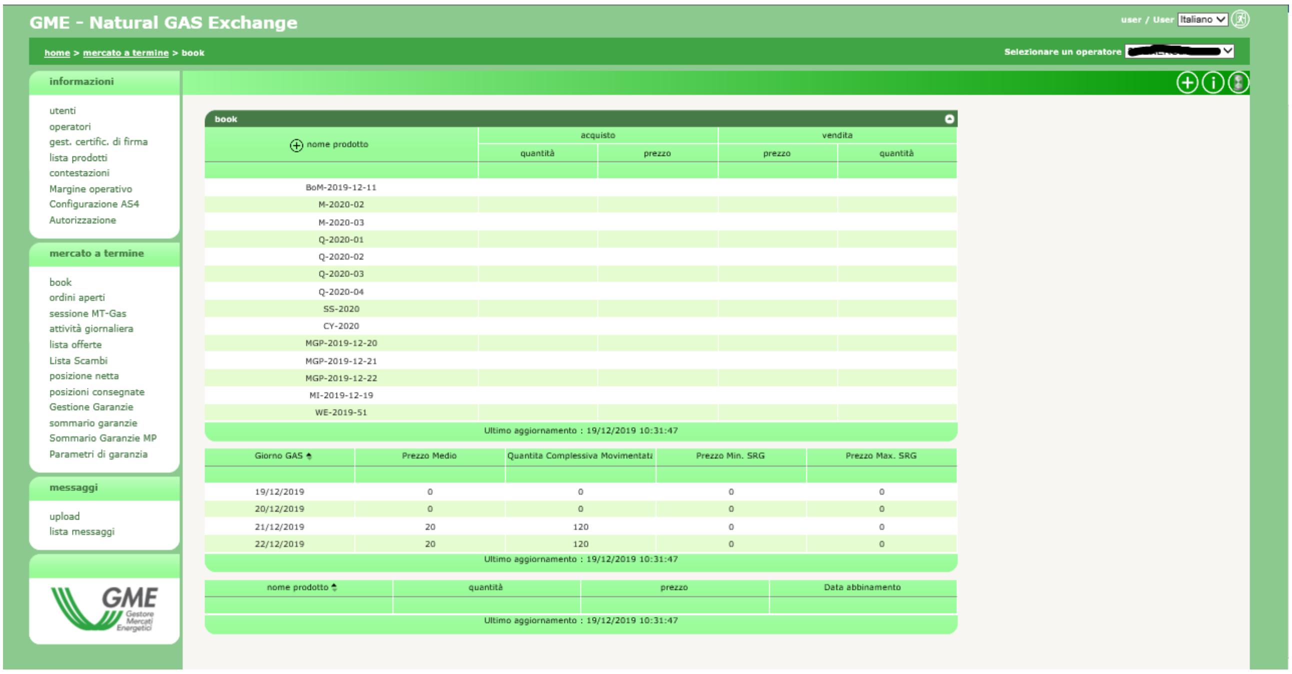


Figure 21: order book

In addition to the above, the page also contains a section dedicated to the price trend (updated upon each new match). This section shows, for each product traded in the M-GAS and MPL, the following information:

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

Prodotto	Prezzo Medio	Quantita Complessiva Movimentata	Prezzo Min. SRG	Prezzo Max. SRG
MGP-2016-09-20	0	0	0	0
MGP-2016-09-21	0	0	0	0
MGP-2016-09-22	0	0	0	0
MGP-2016-09-23	0	0	0	0
MI-2016-09-19	0	0	0	0
MI-2016-09-20	0	0	0	0

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.

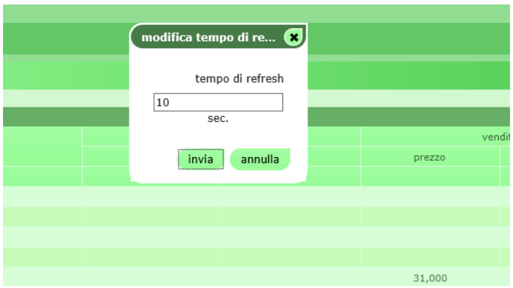


Figure 23: change of refresh time

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.

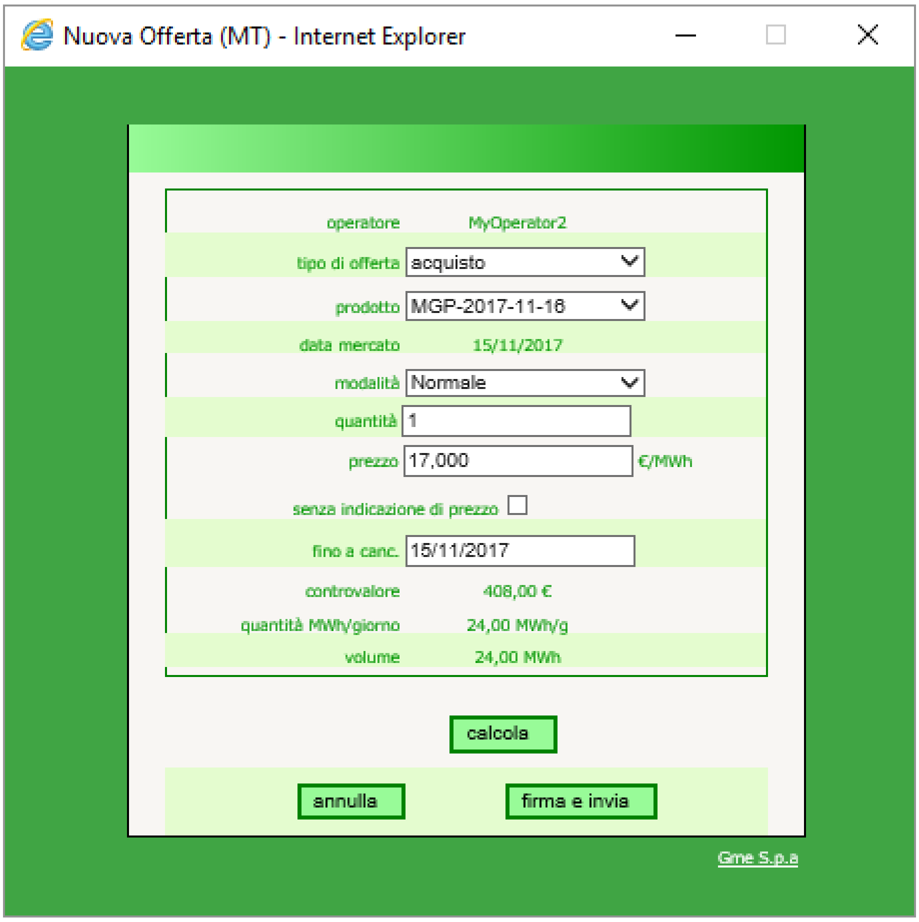


Figure 24: bid/offer entry pop-up window

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 to 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 a sale).

The submitted volume will 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, matched 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 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.

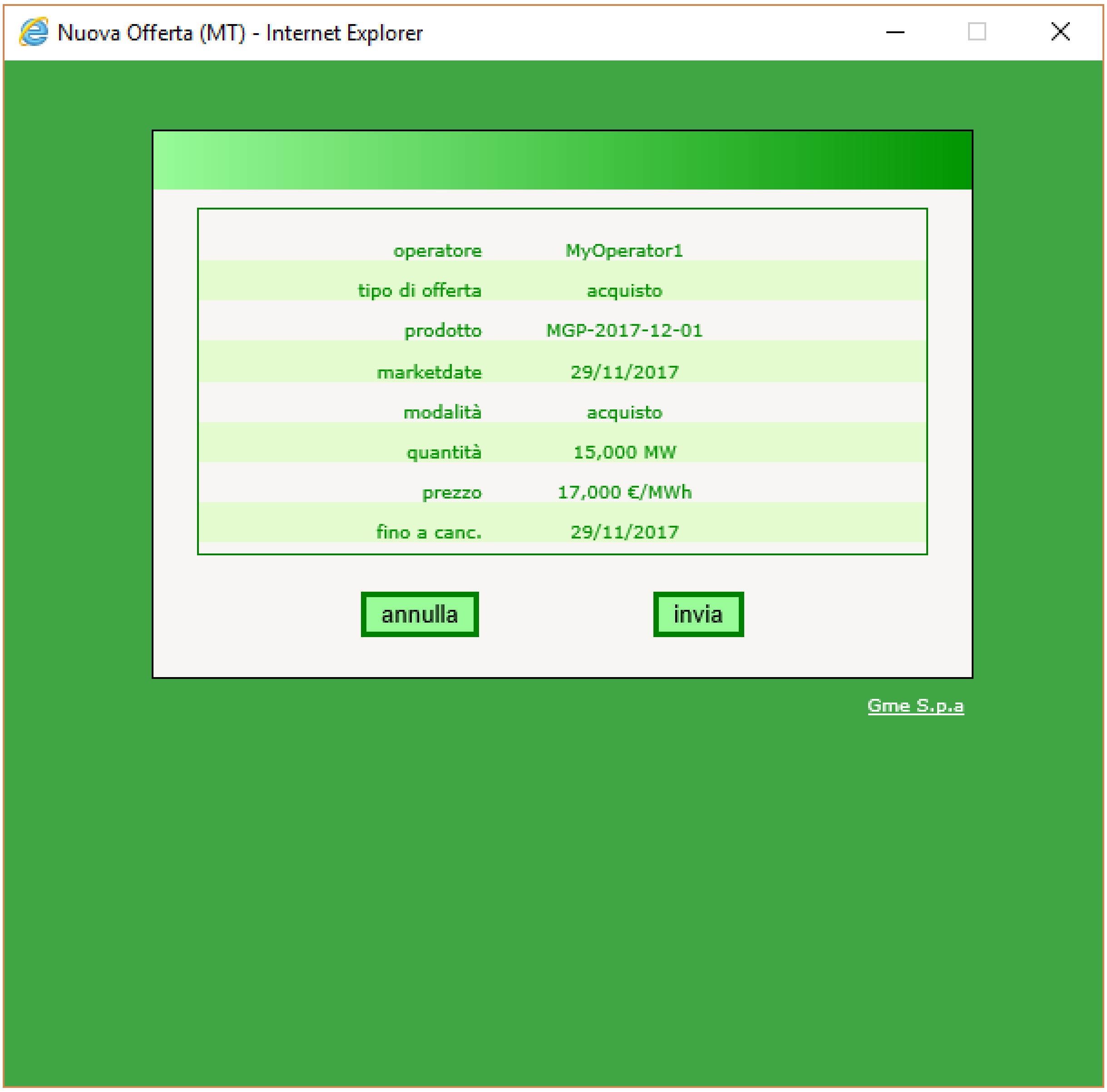


Figure 25: signature preview

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.

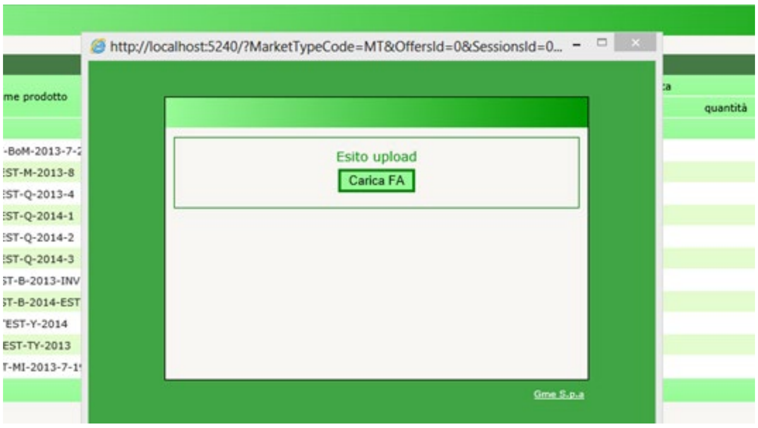


Figure 26: loading of the FA

After the system has processed the bid/offer, it will show the link of Figure 27. The data specified between brackets refers to the number of successful transactions. In the example, one of one, i.e. [1/1].

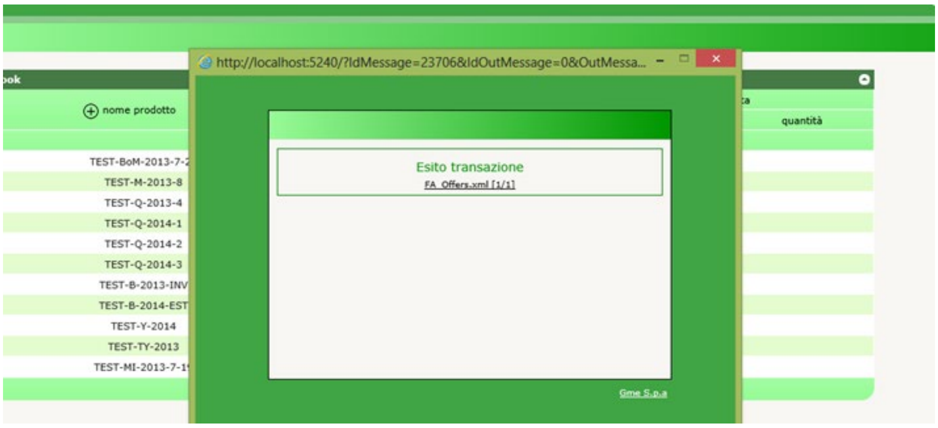


Figure 27: transaction result

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.

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).

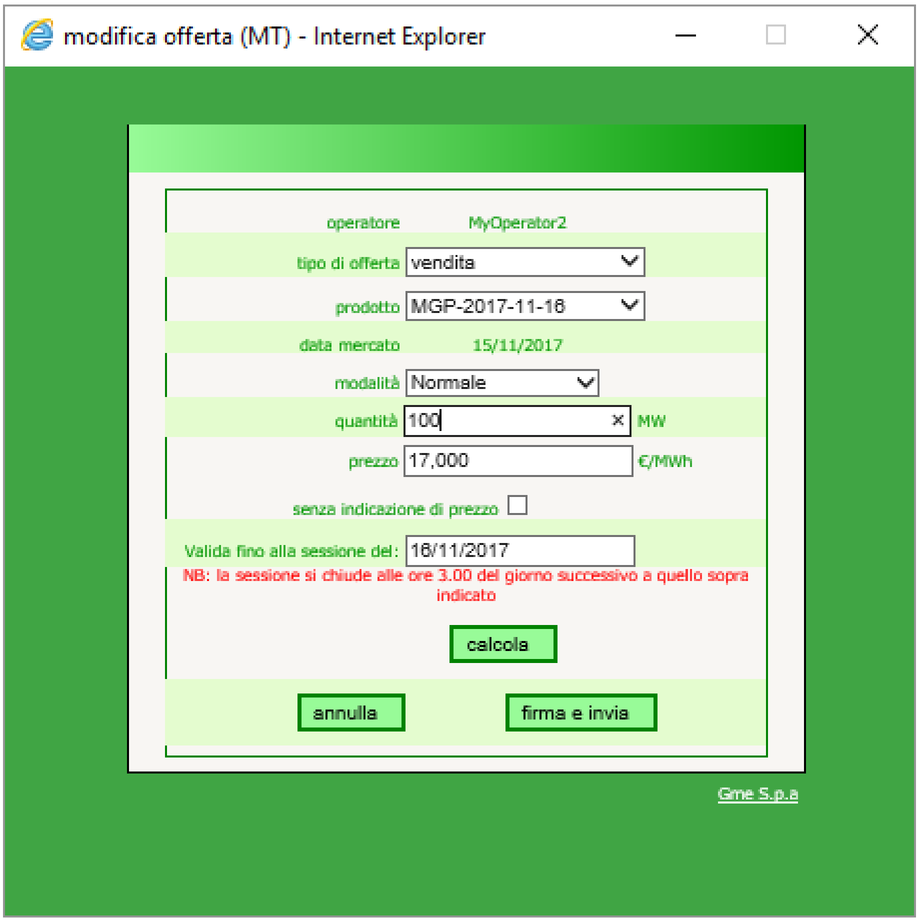


Figure 29: change of a bid/offer

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.

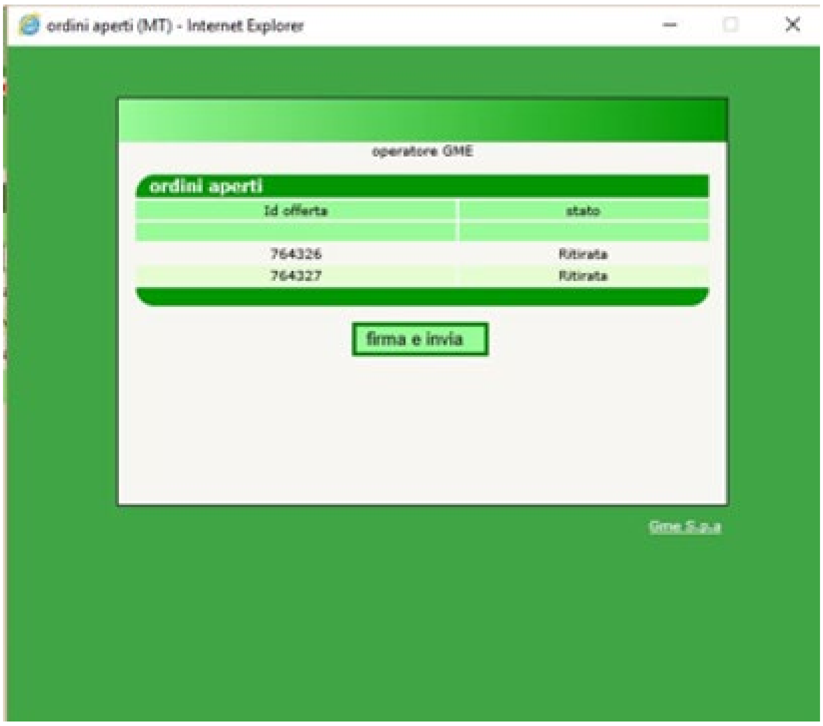


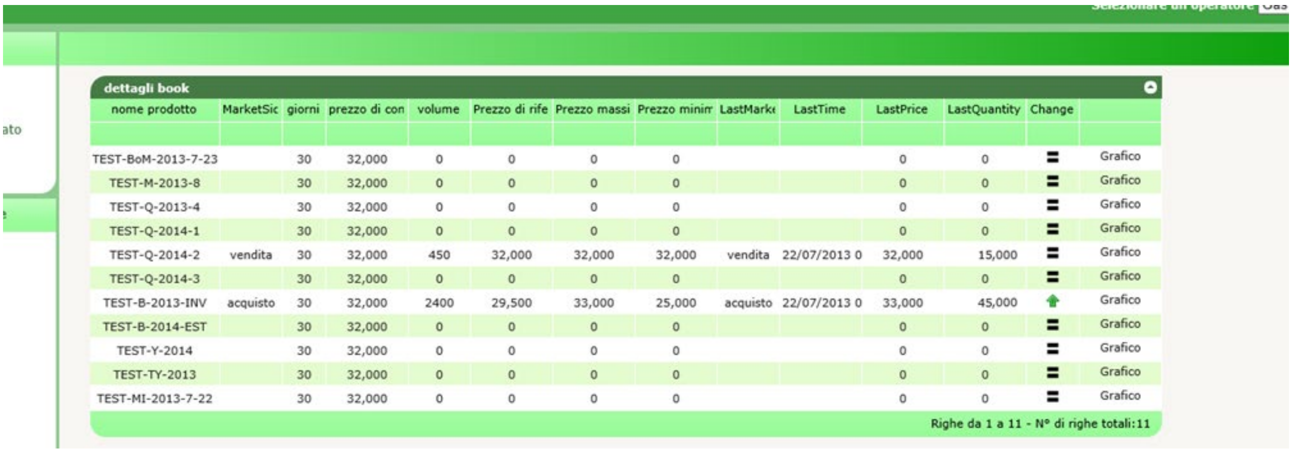
Figure 30: status change procedure

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 25 and 26.

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 minim	LastMarke	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 matches over time with the related prices and volumes (expressed in MWh/day).

Figure 32: graph of matches

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/				
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 Min price: 25,000 Ref price: 25,218 Volume: 22,000
58111	19/07/2013	19/07/2014 07.00.00	19/07/2014 06.00.00	DEL	
56285	18/07/2013	18/07/2013 16.54.00	18/07/2013 21.00.00	CHIUSA	Max price: 0 Min price: 0 Ref price: 0 Volume: 0
57380	18/07/2013	18/07/2014 07.00.00	18/07/2014 06.00.00	DEL	

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).

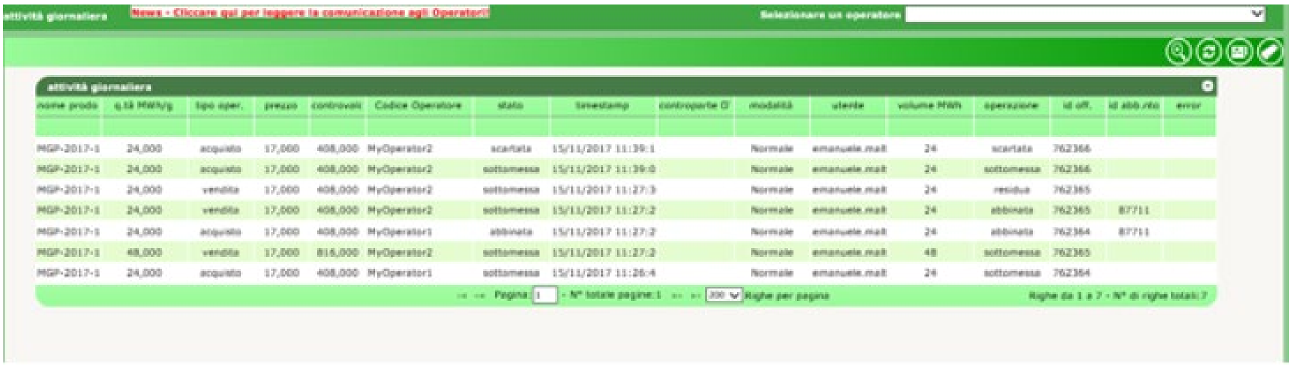


Figure 34: daily activity

LIST OF BIDS/OFFERS

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

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 a bid/offer materially submitted by a participant. A 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.

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 matches and those arising from the cascading mechanism.

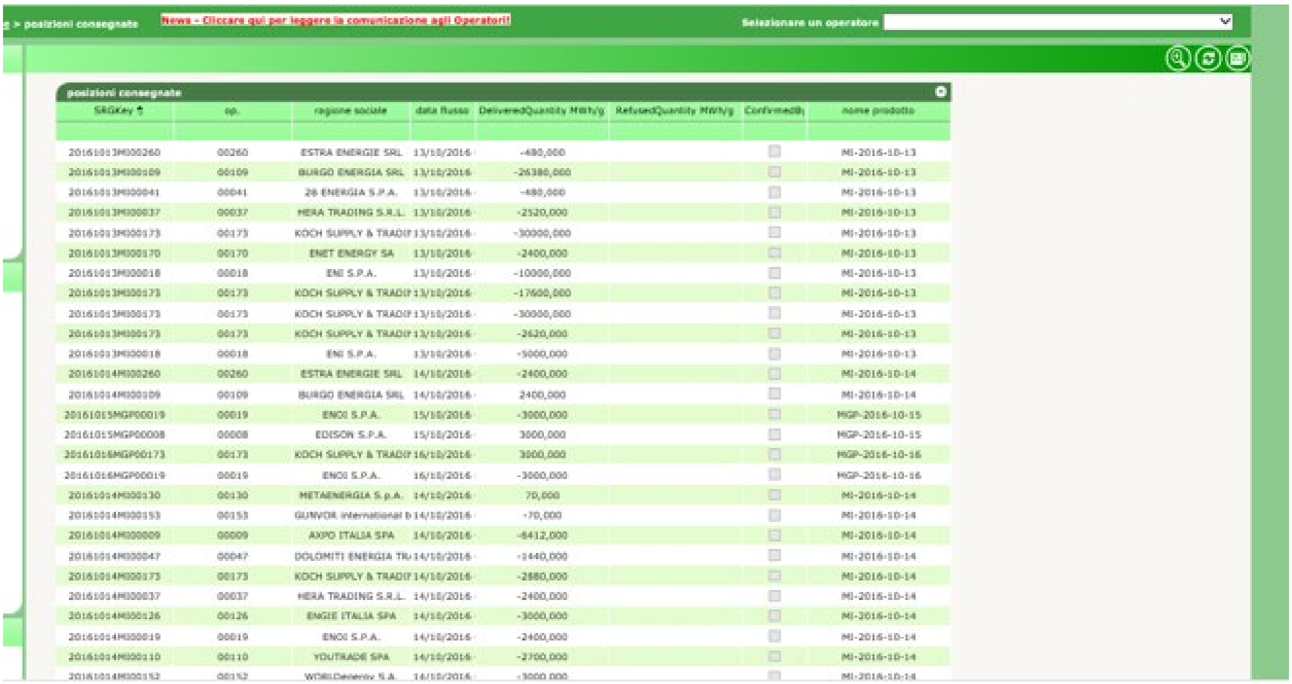


Figure 37: net delivery position

The displayed data is 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, the last due date, 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.

Figure 38: deposit management

By checking the **visualizza garanzie chiuse** (display closed guarantees) box, you may view any closed deposits and credit/debit adjustments.

SUMMARY OF GUARANTEES

On the sommario garanzie (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.

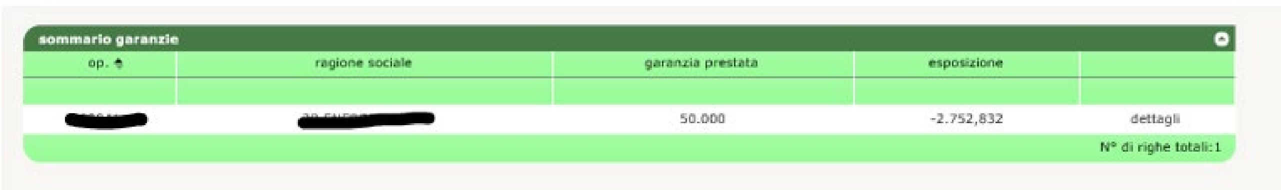


Figure 39: summary of MT guarantees

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).

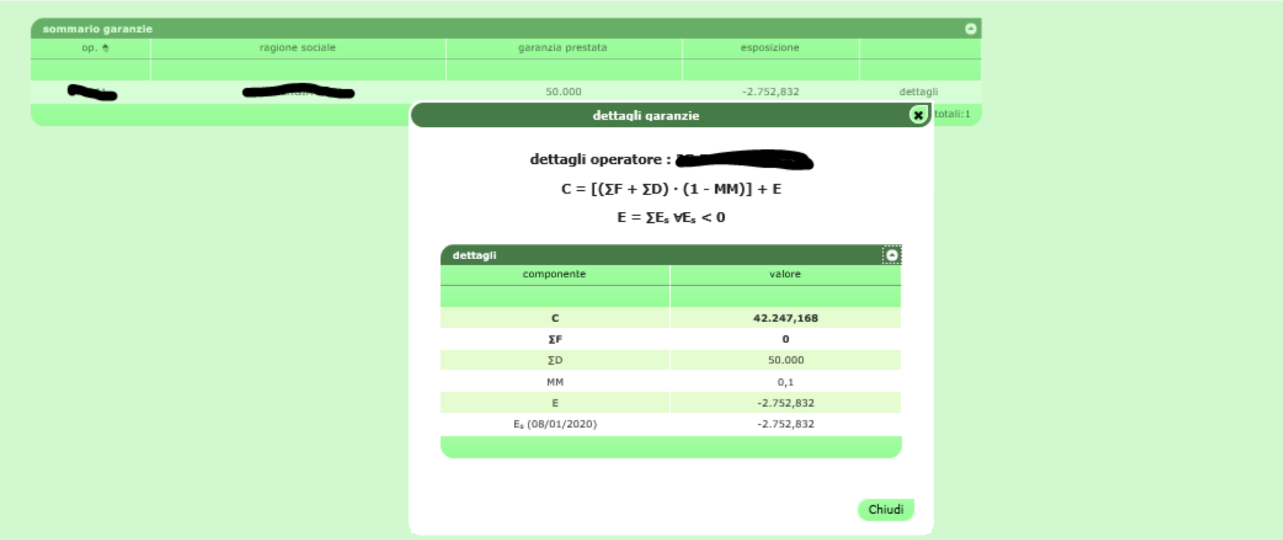


Figure 40: details of the MT financial guarantee

Checking the **visualizza garanzie chiuse** (display closed guarantees) box allows you to view any closed deposits and credit/debit adjustments.

SUMMARY OF MP GUARANTEES

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

- 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 the Netting;
- in the section "Dettaglio Garanzie" (Guarantees Detail) all the deposits and bank guarantees relating to the centralised 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 the Netting, and the valid credits of the MP spot gas market only.

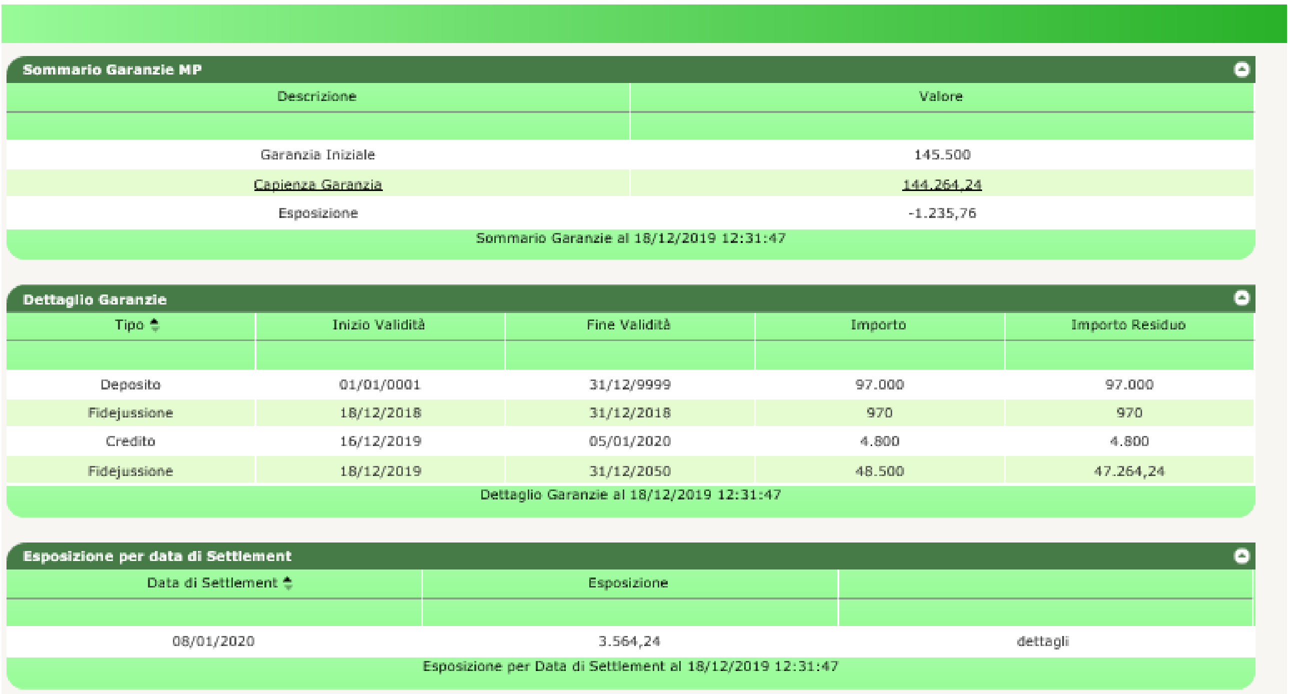


Figure 41: summary of MP guarantees

By clicking on **dettagli** (details), you can view a pop-up containing the details of the financial guarantee formulas, in which you may identify all the components and their amount (Figure 42).

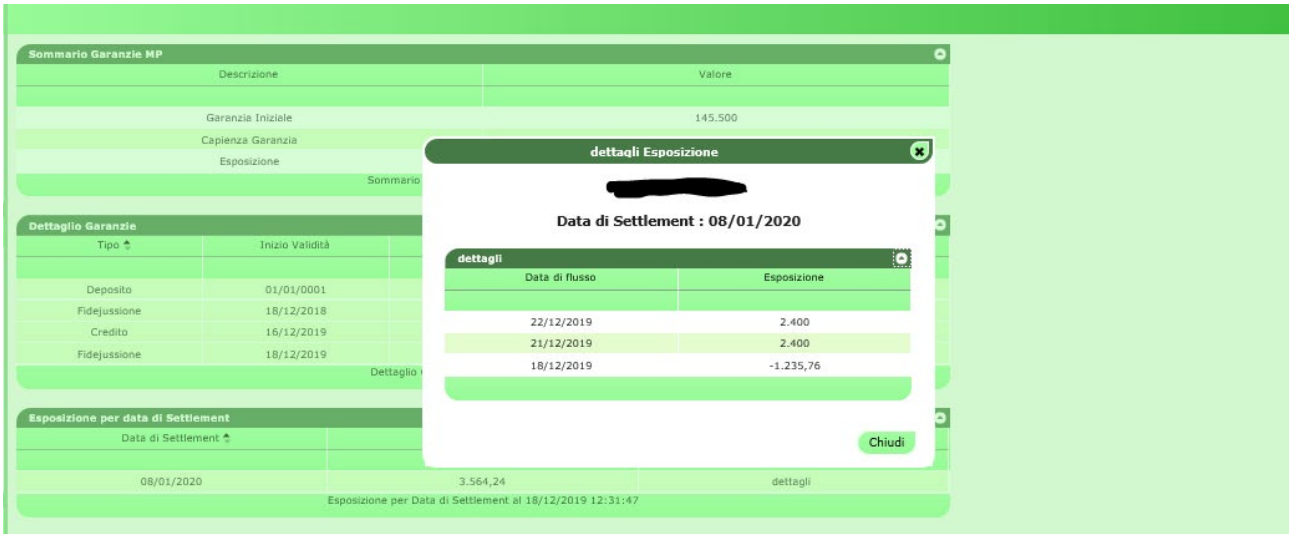
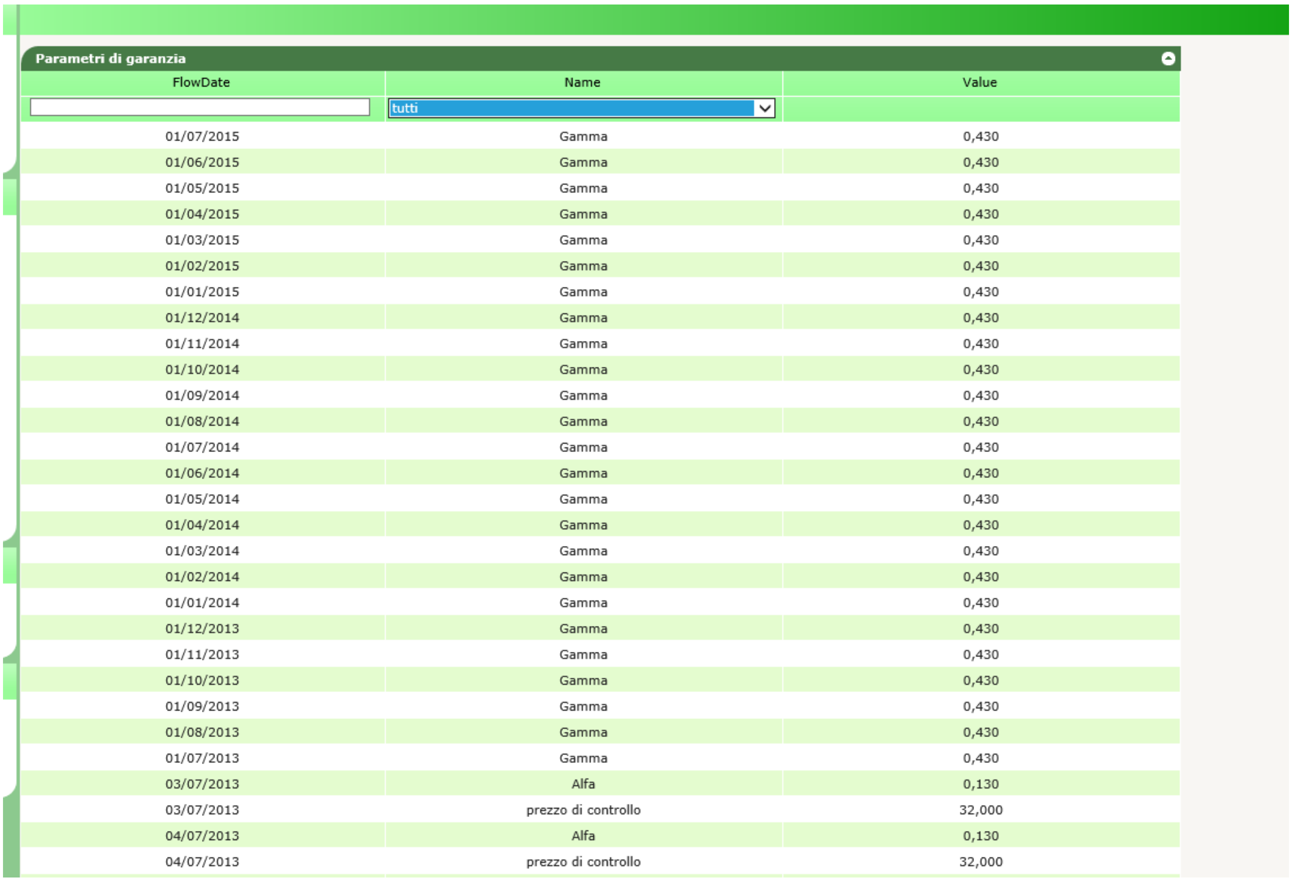


Figure 42: detail of the MP financial guarantee

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

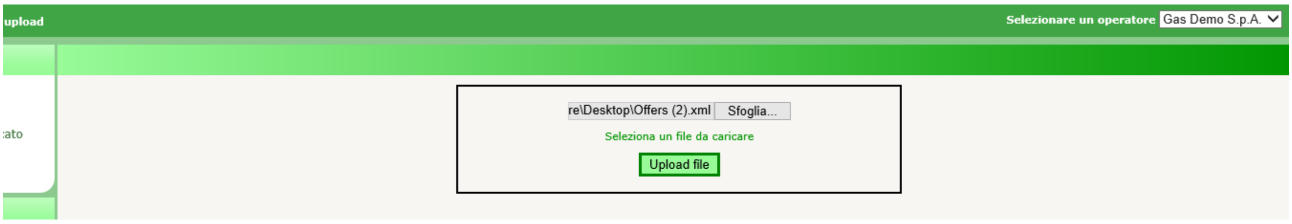


Figure 44: xml file upload

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, 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.

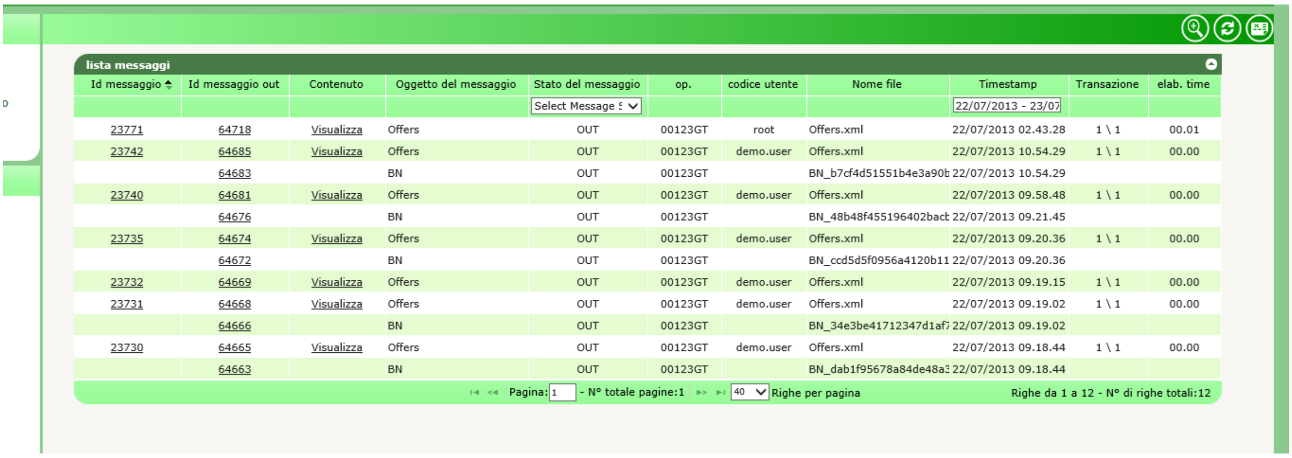


Figure 45: list of messages

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 composed 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 46). 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.

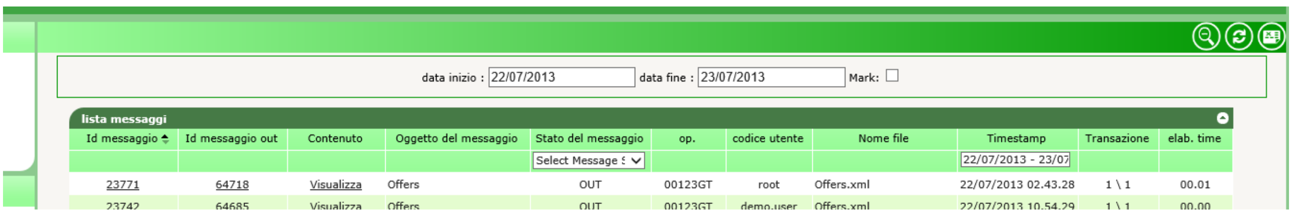


Figure 46: filters of the list of messages

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 45 (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.

FEATURES OF THE MGS 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 in the applicable legislation, the user must register with the portal by following the procedure described on page 5.

HOMEPAGE

Figure 47 shows the main 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** or **viewer**). By clicking Logout, you can leave the portal, closing the session. Now the user must re-authenticate himself/herself if he/she wants to access the portal.

Figure 7: main page of the portal

AUTHORISED PARTICIPANTS

Section **(2)** displays a drop-down menu containing all participants authorised to operate on the MGS with whom/which the current user is associated. The operations that the user performs on the portal, such as the submission of offers/bids, are associated with the participant selected in that menu.

MENU

Section **(3)** shows the menu that contains the links to all the pages that the user can reach. There is an **informazioni** (information) section, which gathers all the pages bearing information useful for users. The **MGS** section contains the pages for the submission and monitoring of offers/bids, their status, the results of the market sessions, the pages showing the management of deposits, and the summary of the participants' guarantees.

Finally, the **messaggi** (messages) section shows the pages to upload xml files and the list of input and output messages relevant to the participants associated with the user.

MULTILINGUAL SUPPORT

The last section **(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 into the selected language. In addition to the translation of the textual parts, changing the language also involves displaying the date in Italian (it-IT) or English (en-GB) format, and the decimal separator for figures: the comma (",") for Italian and the point (".") 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.

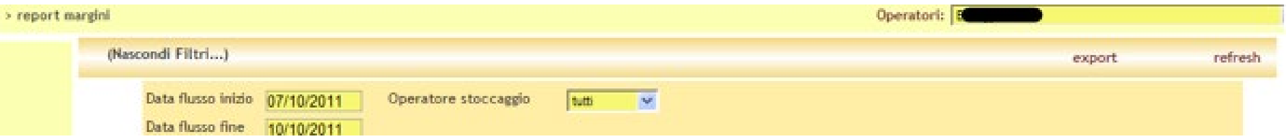


Figure 48: filters and reports in Excel

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 **Mostra filtri** (Show filters…) on the right. Conversely, to hide it, click Nascondi filtri (Hide filters …). The one that appears is the filters section in which, in general, you can enter values that aim to restrict the number of results provided by the underlying report. To reload the report taking account of appropriate filters, it is necessary to click refresh, at the top left.

Finally, you can export the report in Excel format by clicking export. After clicking, the page asks you to save the report in Excel format, showing all the results, obviously without paging them as it happens on the web page.

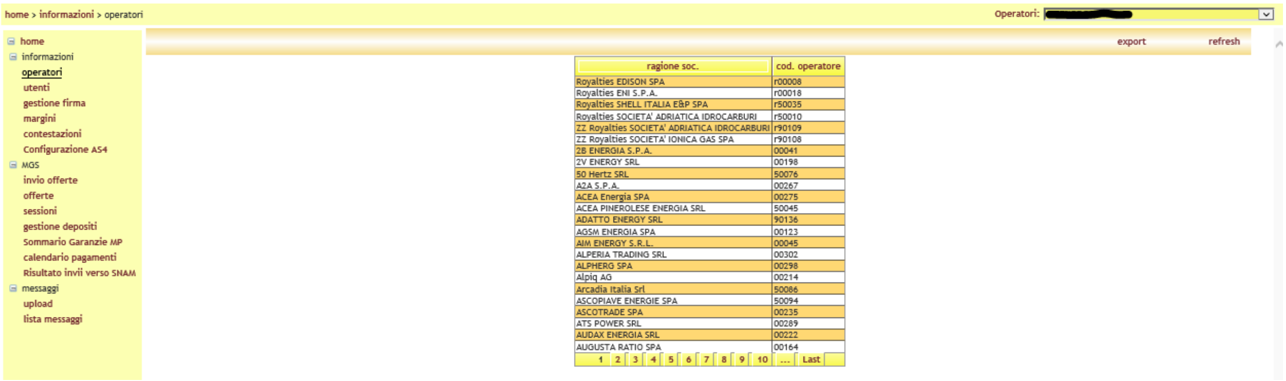


Figure 49: list of participants entitled to the platform

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PARTICIPANTS' PAGE

The operatori (participants) page shows the list of participants authorised to operate on the MGS. This page is read-only and contains information regarding the business name and the code of the participant.

By clicking export, you can export the complete list of participants in Excel format.

USERS' PAGE

The utenti (users) page is another read-only page that allows you to view all the users entitled to act on behalf of the participant selected in the drop-down menu at the top right.

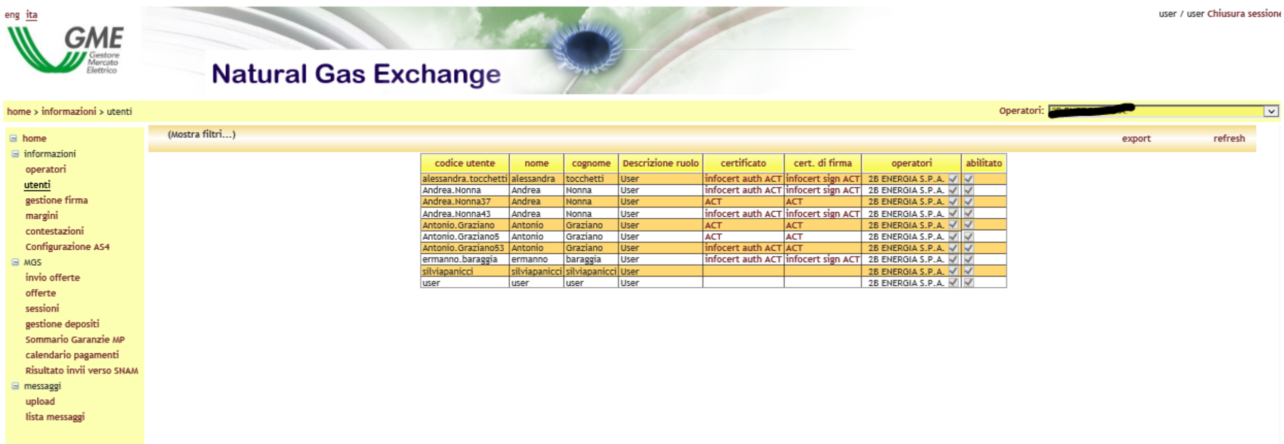


Figure 50: users' page

The information in the table shows: username, name and surname of the user, user's role, information on the authentication and signature certificate, participant for which/whom they are authorised to operate (i.e. the current participant), and an indication of whether the user is enabled or not, respectively. Clicking on (Mostra filtri) (Show filters…), you can access the area of the page containing filters. In the list of users, there is only one **Cerca** (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 gestione firma (signature management) link, you can access the page that offers users the possibility to manage their signature certificate. If the user fails to have a signature certificate, the page looks like in Figure 51; the link “**Aggiungi**” (Add) allows the user to add a certificate.

Figure 51: the user has no signature certificate. The page allows you to add one

By clicking on the link “**Aggiungi**” (Add), you can choose, among the certificates installed on your computer, the one that you wish to use to sign the transactions being uploaded to the system, as shown in Figure 52.

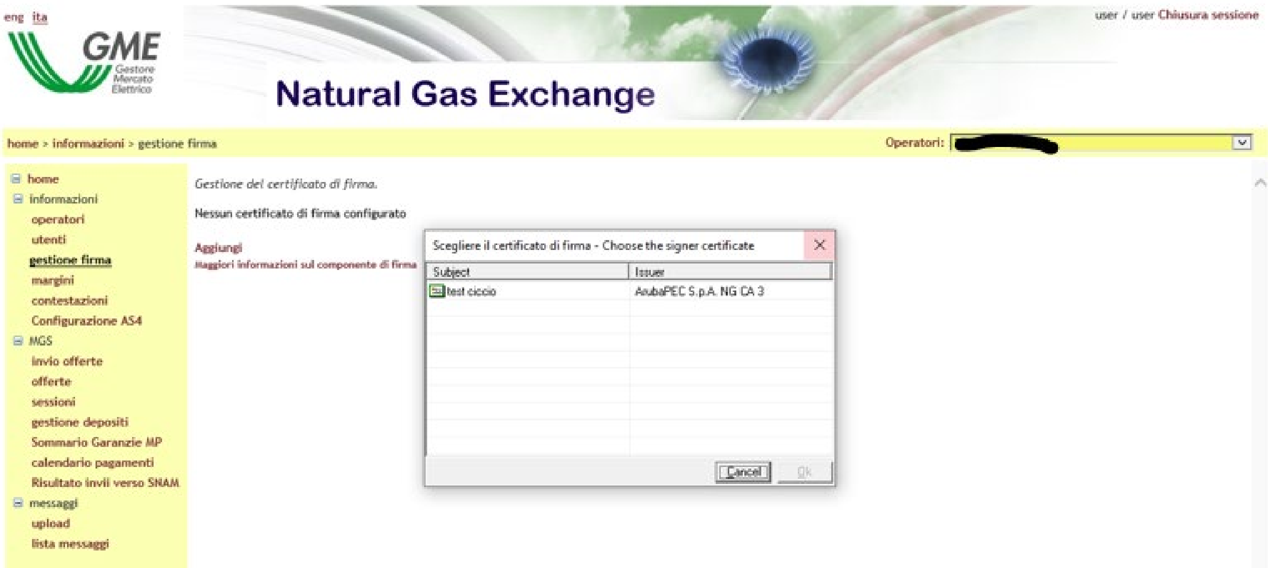


Figure 52: insertion of a new certificate

Once you have selected the certificate, you will view its details on the page. At this point, the user must confirm the insertion of the certificate by clicking on the link “**Salva**” (Save) link.

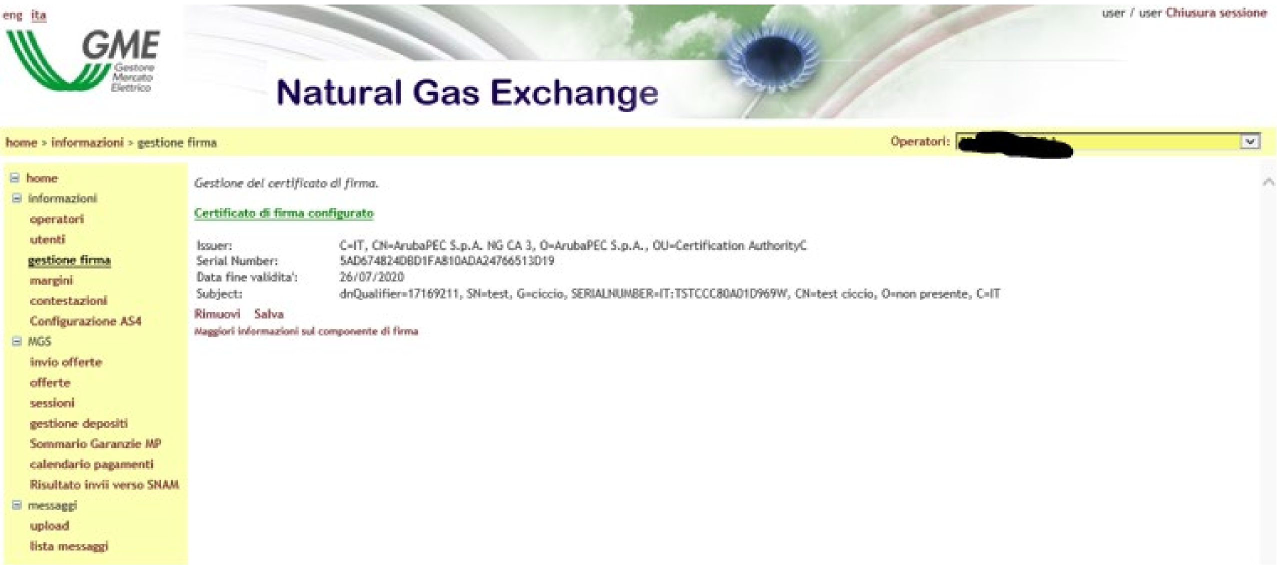


Figure 53: details of the certificate being inserted

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

MARGINS

Continuing with the series of pages, you find the report on margins. It is a report showing the **maximum step-down** (purchase) and **step-up** (sale) **margins** for all participants associated with the user. These margins are reported by SNAM Rete Gas and expressed in MWh/day. The margins are displayed by **storage participant** and by **flow date**.

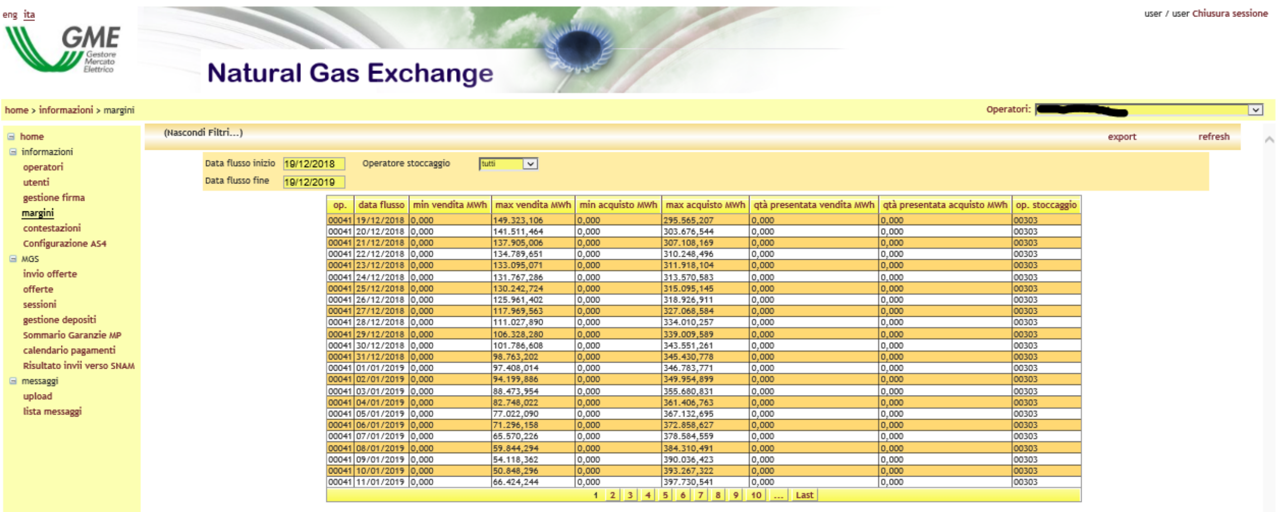


Figure 54: report on margins

Together with the margins, also the information on **quantità presentate in acquisto** and **in vendita** (volumes submitted for sale and purchase), expressed in MWh/day, is displayed. Volumes are coloured differently depending on whether they violate the margins: black if they fall within the maximum margin, red if they exceed the maximum margin.

Figure 54 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

<data, operatore, operatore dello stoccaggio> (<date, participant, storage participant>). If you view a flow date that involves no margins, you will see a blank row, possibly with the volumes already submitted by the participant. You can also filter by 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 colour.

COMPLAINTS

Figure 55 shows the page of complaints through which you can monitor the progress of complaints. Any complaint can be inserted and then updated by associating new messages with it. You can see the list of all the complaints made by the participant that you represent, in particular: title of the complaint, its status, code of the company (participant) to which the complaint relates, user who submitted the complaint, timestamp indicating the time of submission, and then a link relating to the possibility of adding a new message to the complaint already opened.

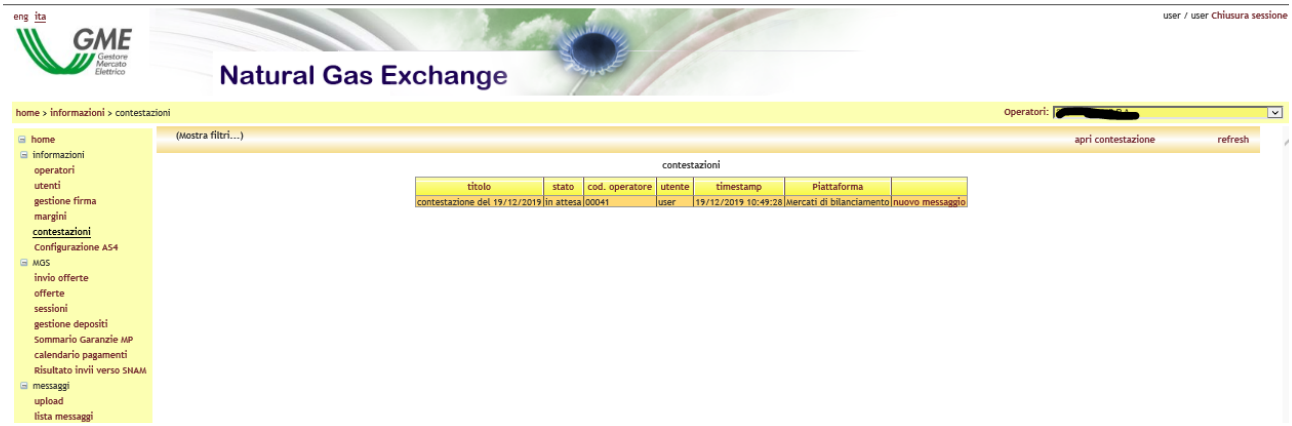


Figure 55: complaints

Selecting the 'Apri contestazione’ (Open complaint) link, you can then open the window to add a complaint, as shown in Figure 56.

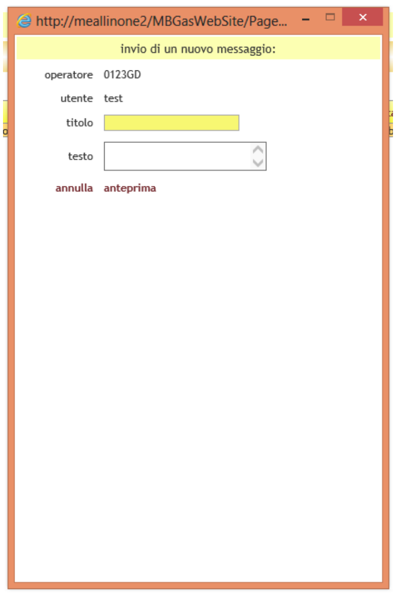


Figure 56: entering complaints

SUBMISSION OF BIDS/OFFERS

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

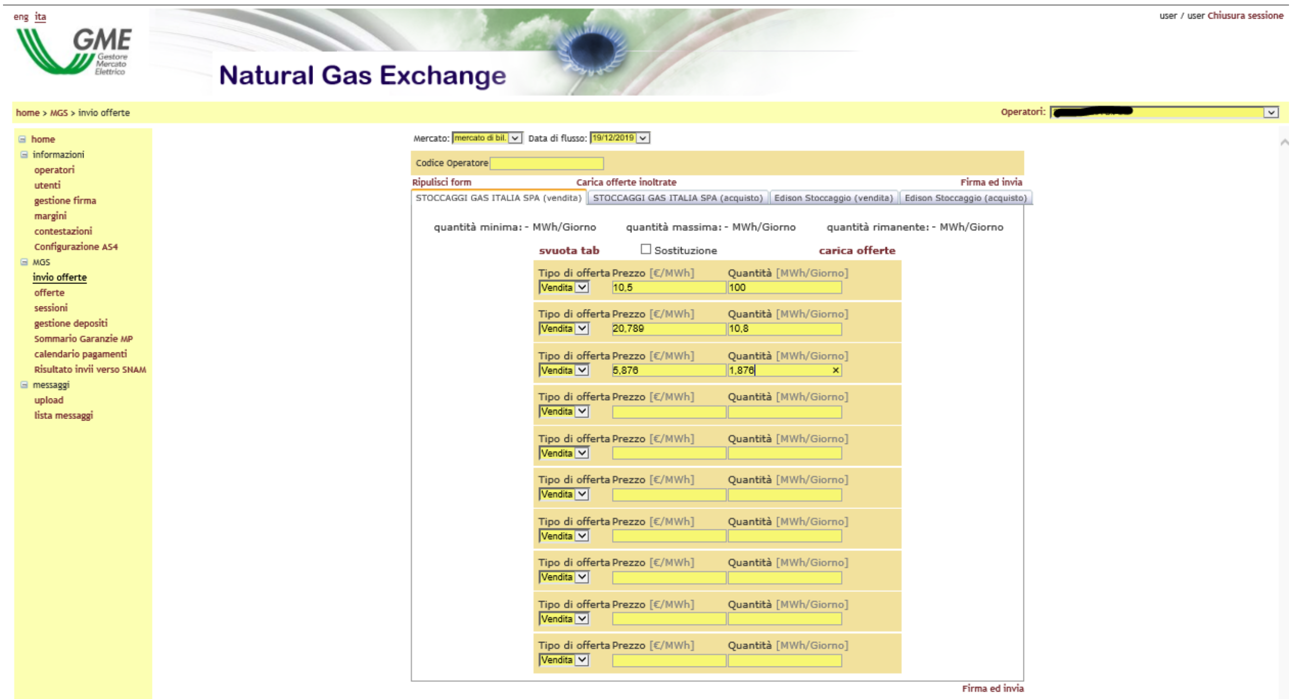


Figure 57: offers/bids submission page

The page is organised as follows: at the top there are two drop-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 **codice operatore** (participant code) field allows the participant to enter 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 between step-up (sale) and step-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:

- Ripulisci form (Clean up form): you can clean up the text boxes of all tabs, deleting any numerical values that are displayed.
- Carica offerte inoltrate (Load submitted offers/bids): it allows you to view in the text boxes the offers/bids already submitted for that flow date.
- Firma e invia (Sign and send): it allows you to proceed with the bid/offer submission, as shown later.

Each tab contains some useful information, i.e. the **quantità complessive minima e massima** (minimum and maximum total volumes), **expressed in MWh/day,** allowed for that storage participant, and the 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. The

quantità rimanente (remaining volume) in accordance with the maximum margin is also displayed next to these values.

Further down, you can see the svuota tab (empty tab) link. It is used to clean up the text fields of a single tab, leaving those of the other tab unaltered. The **Sostituzione (Replace)** checkbox indicates that the first offer/bid specified below will replace the first offer/bid that is already in the system (with respect to the tab context: the storage participant and the 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 (expressed in MWh/day). 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, the system will return a page that requires further confirmation.

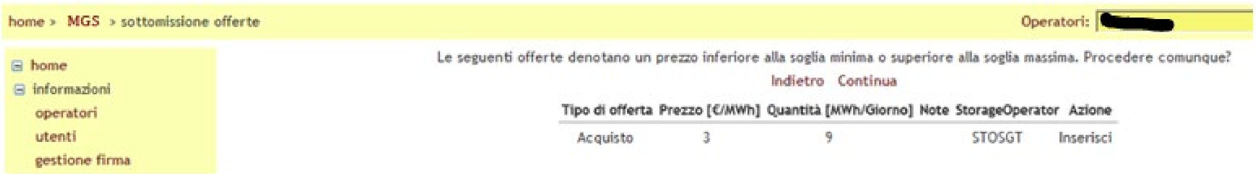


Figure 58: prompting for confirmation of a very low price

Figure 58 shows an example of a demand bid at a price equal to **3 €/MWh**. This page requires confirmation (continue) or allows going indietro (back) and making corrections. When you click continue, you finally get to the offers/bids signature and submission page.

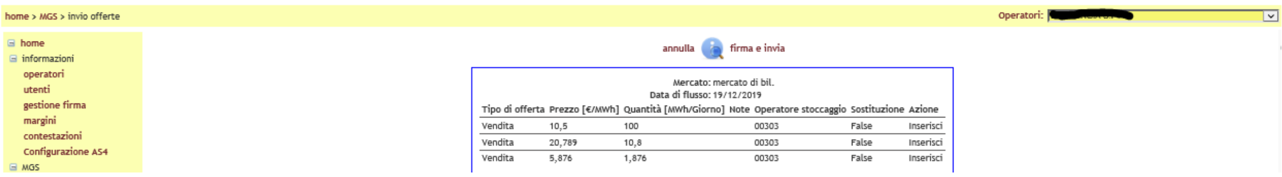


Figure 58: the phase of the content signature

Figure 58 shows the essential data that characterise the offers/bids: type of offer/bid, unit price, volume (expressed in MWh/day), notes, storage participant associated with the bid/offer, indication of whether it is a replacement, and the action. In this case it is always an action of the **"inserisci"** (enter) type. In general, you can also perform the actions of **cancellazione** (cancellation) and **modifica** (change). To perform these actions, you need to load in the tabs the offers/bids already submitted through the links already described or simply reload the page (in fact, every time you reload the page, the offers/bids already submitted are automatically displayed).

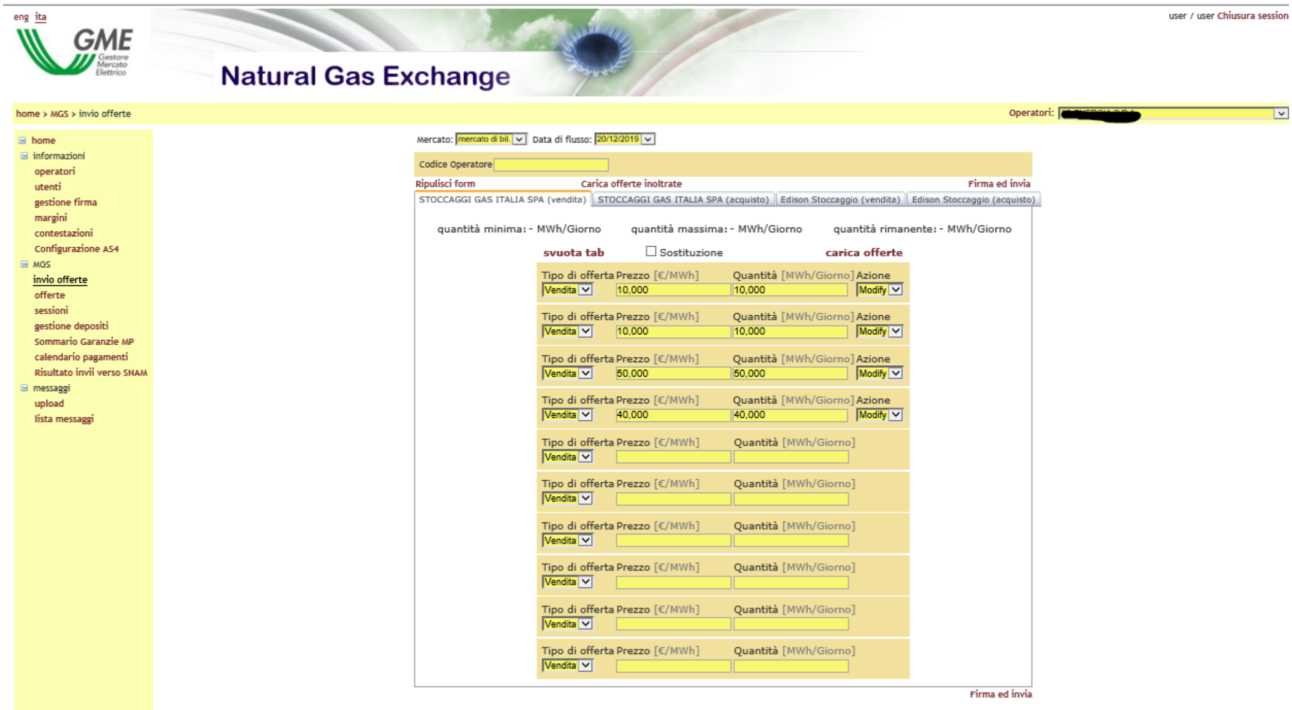


Figure 59: managing offers/bids already submitted

Figure 59 shows the offers/bids already submitted. With respect to Figure 57, 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 OFFERS/BIDS

Once you handled the offers/bids, you can then view them in the offers/bids report, shown in Figure 60.Please note that the report is specific to the participant selected in the upper right.

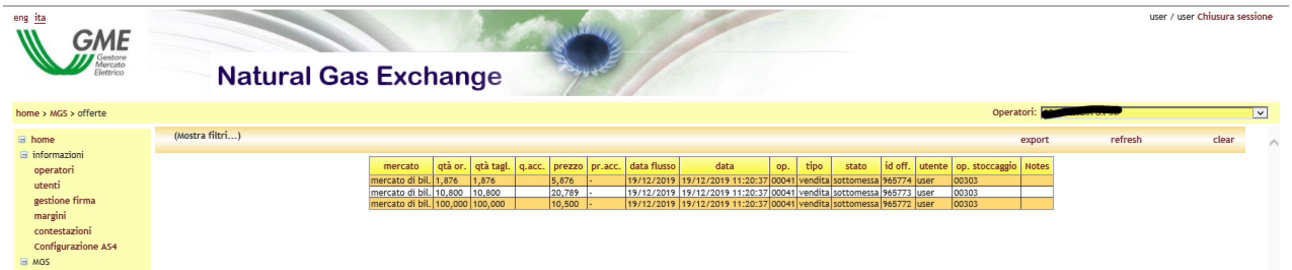


Figure 60: list of offers/bids

Observing the filters, you may see the bids/offers by range of flow dates, type of transaction (sale and/or purchase), and offer/bid status.

You can also specify the offer/bid ID or the ID of the xml message through which the offer/bid was submitted.

The table shows details such as: the market, the volume submitted (expressed in MWh/day), the curtailed volume (we will return to this point 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 pages, we find the page with the list of market sessions. It shows all the MBS sessions, indicating, for each of them, the ID of the session, the flow date, the opening hours, the closing hours, the market, and the status. As for the status, a session can be **aperta, chiusa** or **completata** (open, closed or completed). Open sessions allow the submission of offers/bids and their management (**modifica** o **revoca** - change or withdrawal). A closed session no longer accepts offers/bids or modifications of those already submitted. A session is completed when it was performed, the matches were confirmed, and the marginal price was determined.

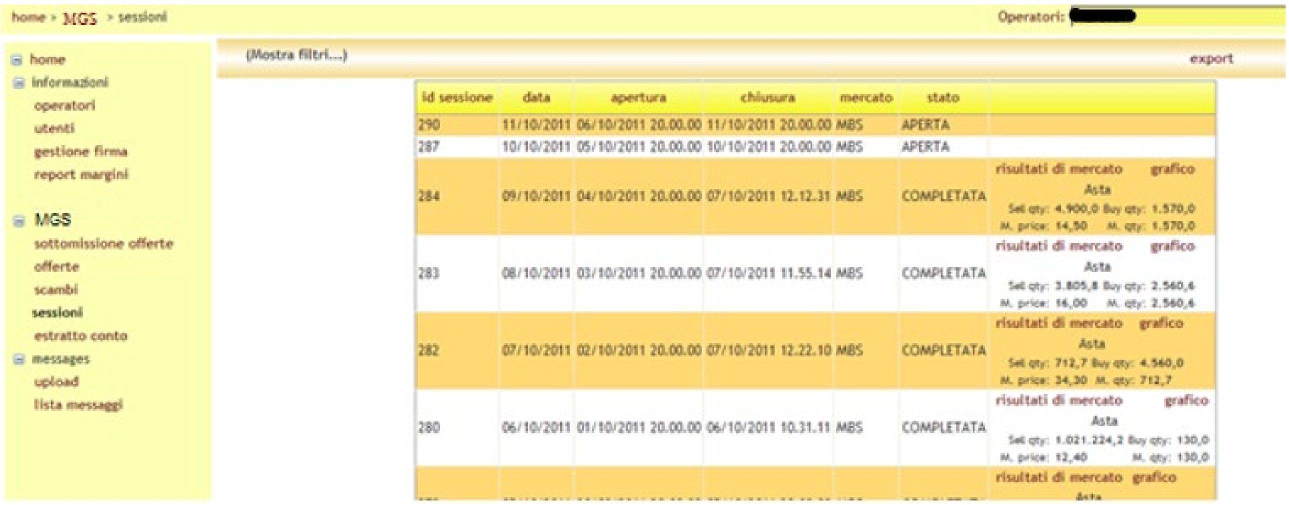


Figure 61: report on sessions

Completed sessions show the details, as shown in Figure 61. The figure shows the volume submitted for sale, that submitted for purchase, the marginal price, and the marginal volume. Each completed session also denotes two links: risultati di mercato (market results) and grafico (graph).

MARKET RESULTS

Clicking market results opens a page with more details: the data regarding the volumes submitted, the marginal price, and the marginal volume is repeated.

Figure 62: market results

Below, you may view the net positions of participants, i.e. only those associated with the connected user. For each participant, the system shows the net position for each storage participant.

DEMAND AND SUPPLY INTERSECTION GRAPH

In the sessions page, by clicking on graph, you open a pop-up containing information already reported in the previous two pages. In addition, you will view a graph with the intersection of the demand and supply curves.

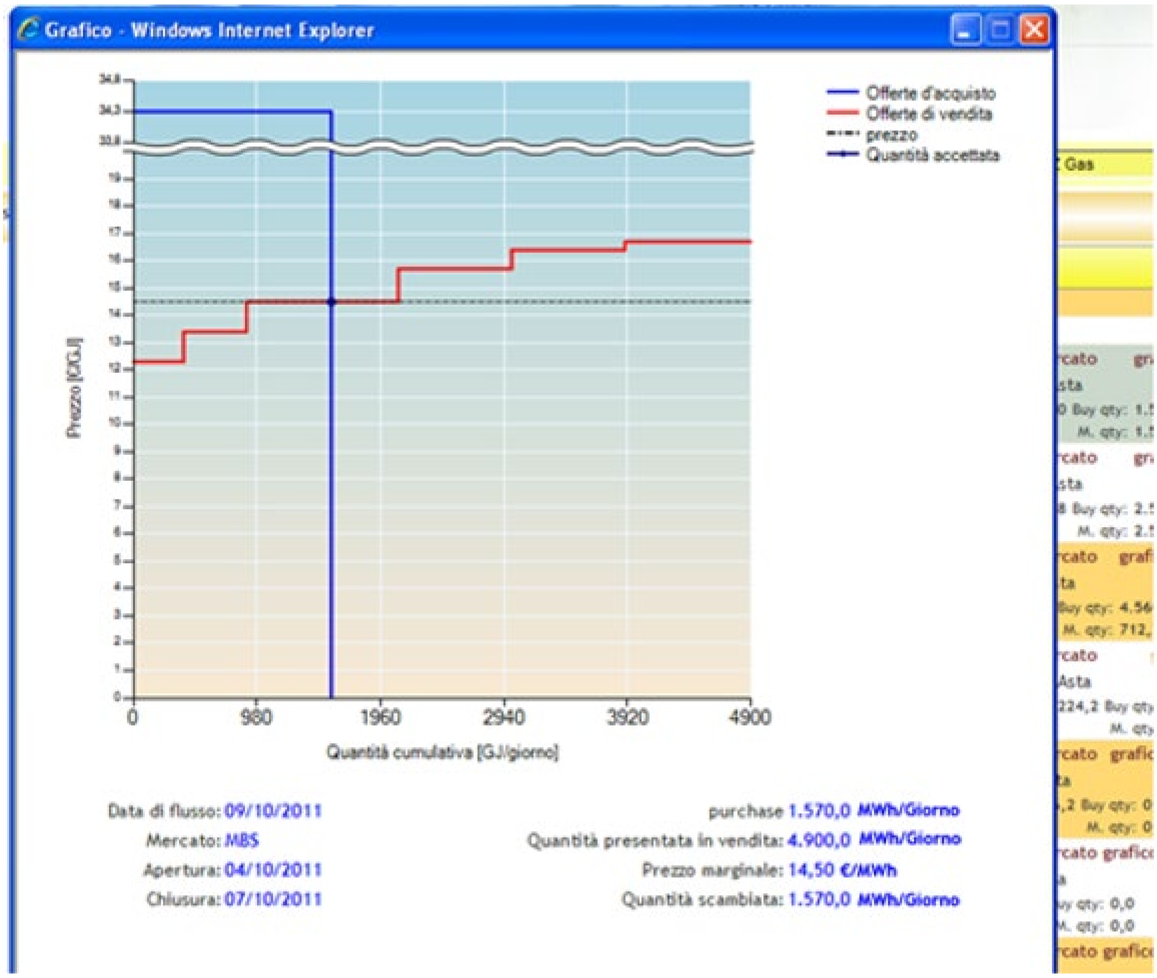


Figure 63: graph with the intersection of the demand and supply curves

DEPOSIT MANAGEMENT

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

The first report contains information such as the code and registered name of the participant, the initial amount of the deposits, the last due date and the last paid date.

By clicking “dettagli” (details), you may view the underlying report, which provides details about deposits and credit/debit adjustments.

(Mostra filtri...) export refresh

op.	ragione sociale	Quantità iniziale	ultima data in pagamento	ultima data pagata	
[redacted]	[redacted]	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	☐
783385	Adjustment	-500,000			18/12/2019	☐
783386	Adjustment	7000,000			17/12/2019	☐

Chiudi

Figure 64: deposit management

By checking the **visualizza movimenti chiusi** (display closed movements) box, you may view possible closed deposits and credit/debit adjustments.

SUMMARY OF MP GUARANTEES

On the Sommario Garanzie MP (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 65). For each participant selected, the drop-down menu shows.

- 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 the Netting);
- in the section "Dettaglio Garanzie" (Guarantees Detail) all the deposits and bank guarantees relating to the centralised Netting guarantee system and the credit and debit adjustments 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 the Netting, and the valid credits of the MP spot gas market only.

refresh

Sommario 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 **dettagli** (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 66).

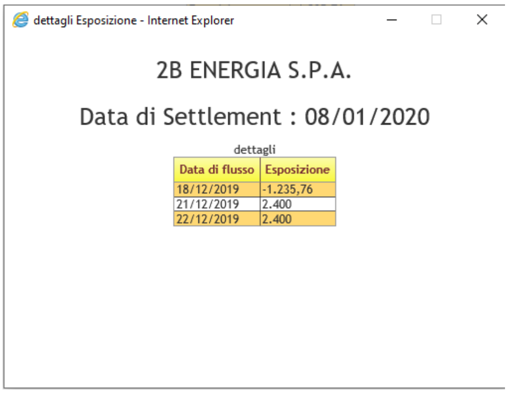


Figure 66: details of the financial guarantee

UPLOAD

After the section of the menu called MGS, let us now turn to the last section, namely the messages. The upload page is used to forward to 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 must select a participant referred to in the xml file, otherwise the message will be rejected by the system. Clicking **sfoglia** (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 checked in the messages list page, analysed below.

MESSAGES LIST

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

Let us analyse in detail the columns that make up the table. The message ID is also a link that allows you to view the original xml message detailing the transaction. Similarly, the ID of the out message 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's 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), and finally, the processing time.

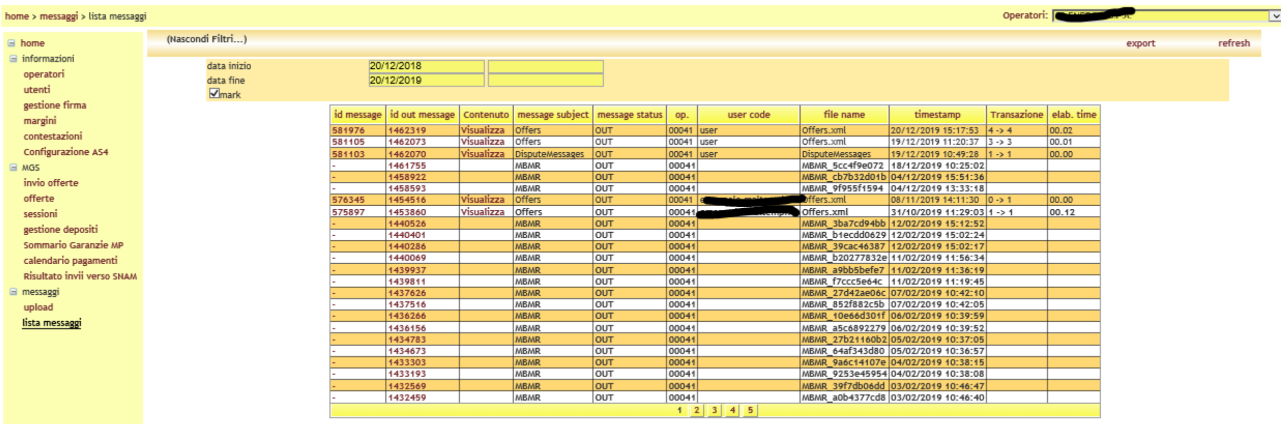


Figure 67: messages list

The available filters 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, when they are viewed by clicking the ID out message.

DYNAMICS OF A MARKET SESSION

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 demand bids and 10 are supply offers.

The participant can take note of his/her/its maximum and minimum margins for purchase and sale and submit bids/offers accordingly. However, the system, at the time of acceptance of bids/offers, will not check the margins and thus it will not report to the participant any failure to satisfy the margins.

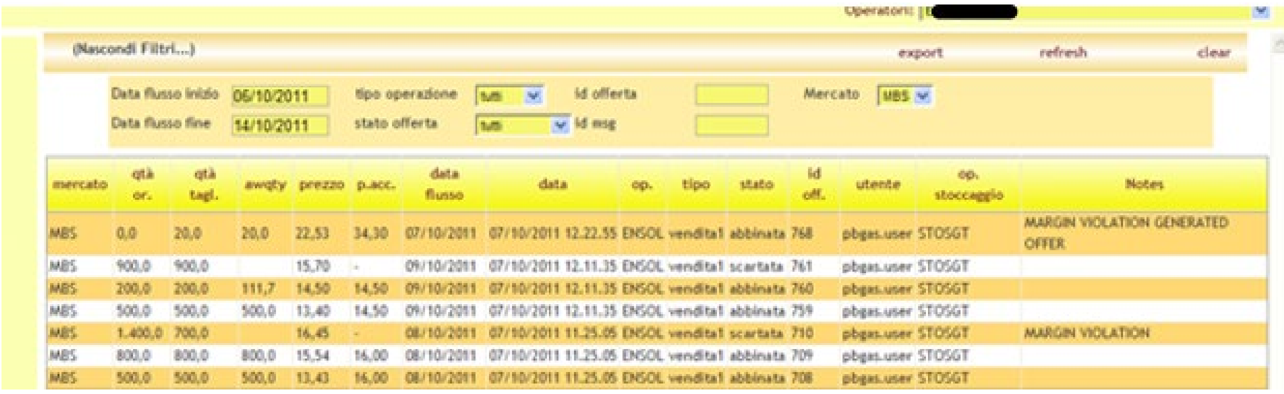
CLOSING OF THE SESSION AND ITS COMPLETION

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:

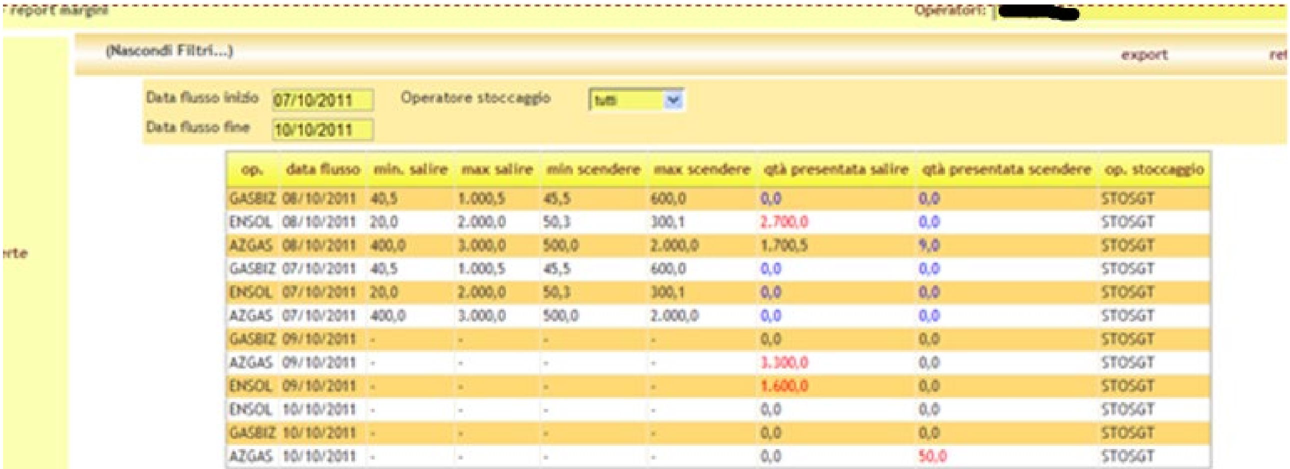
1) **The participant has submitted bids/offers that satisfy the margins.**
2) **The participant has exceeded the maximum margin**: in this case (given a storage participant and a type of bid/offer) the sum of the volumes of the submitted offers/bids, accepted by the system, exceeds the maximum margin. In this case, offers/bids are ranked in merit order and volumes (staring from the least meritorious bid/offer) are curtailed until satisfying the margin. Offers/bids with corrected volumes will be accompanied by a note **"MARGIN VIOLATION",** possibly linked to the note entered by the participant, as shown in Figure 68. The "Qtà tagl." (curtailed volume) column shows the curtailed volume, i.e. the volume that will be considered by the algorithm, after curtailing it due to margin violation.



mercato	qtà or.	qtà tagl.	awqty	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	vendita1	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	vendita1	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	vendita1	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	vendita1	abbinata	759	pbgas.user	STOSGT	
MBS	1.400,0	700,0		16,45	-	08/10/2011	07/10/2011 11.25.05	ENSOL	vendita1	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	vendita1	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	vendita1	abbinata	708	pbgas.user	STOSGT	

Figure 68: curtailed offers/bids due to margin violation

Figure 69 shows the report on margins with failures to satisfy the margins. It displays the exceeded maximum margin in red and the volumes below the minimum margin in blue. Situations satisfying the margins are indicated in black.



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 failures to satisfy the margins

INVALIDATION OF OFFERS/BIDS

After checking the margins, the system proceeds to invalidate participants' offers/bids of the same type as that submitted by SNAM Rete Gas. These offers/bids are marked as **non valide** (invalid).

GUARANTEE CHECK

The next step involves the guarantee check on demand bids submitted by participants. The most significant scenario involves the exceedance of the financial guarantee available to the participant. In that case, some offers/bids are marked as **invalid. Invalid** and curtailed offers/bids show **"OFFER REFUSED FOR WARRANTY OVERFLOW"** in the notes.

EXECUTION AND *PRO RATA* ALLOCATION OF BIDS/OFFERS

At this point, the market can form the **prezzo** (price) and the **quantità marginale** (marginal volume), through the intersection of 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, the system carries out a *pro rata* allocation of offers/bids, dividing the reference volume among all bids/offers at the marginal price. The volume is distributed in percentage, weighting the volumes 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 market outcomes show the price, the marginal volume, and the submitted volumes for sale and purchase. The bid notifications, instead, contain the results of bids/offers, showing details such as the marginal price, the “rewarded” volume, the curtailed volume, etc. Details of the format of these files are available in the **implementation guide**.

FEATURES OF THE LOCATIONAL PRODUCTS MARKET (MPL) PORTAL

This section shows the features offered by the portal. First, the user must obtain access to the portal. After completing all the procedures specified in the applicable legislation, the user must register with the portal following the procedure described on page 5.

HOMEPAGE

Figure 70 shows the homepage 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** or **viewer**). Immediately next, there is a drop-down menu that allows you to choose the language in which to display the content of the portal. The content of the pages will be translated into the selected language. In addition to changing the textual parts, changing the language also involves displaying the date in Italian (it-IT) or English (en-GB) format and the decimal separator for figures: the comma (",") for Italian and the point (".") for English.

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

Figure 70: homepage of the portal

AUTHORISED PARTICIPANTS

Section **(2)** displays a drop-down menu containing all participants authorised to operate on the **MPL** and associated with the current user. The operations that the user performs on the portal, such as the submission of offers/bids, are associated with the participant selected on that menu.

MENU

Section **(3)** shows the menu that contains the links to all the pages that the user can reach. There is an **information** section where all the pages bearing information useful to users are grouped. The **MPL** section contains the pages for the submission and monitoring of offers/bids and the results of the market sessions, as well as the read-only pages showing the deposit management and the summary of participants' guarantees.

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

MAIN CONTENT

The last section **(4)** shows the content of the pages. The homepage, that is the one shown in Figure 70, is the page that contains 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.

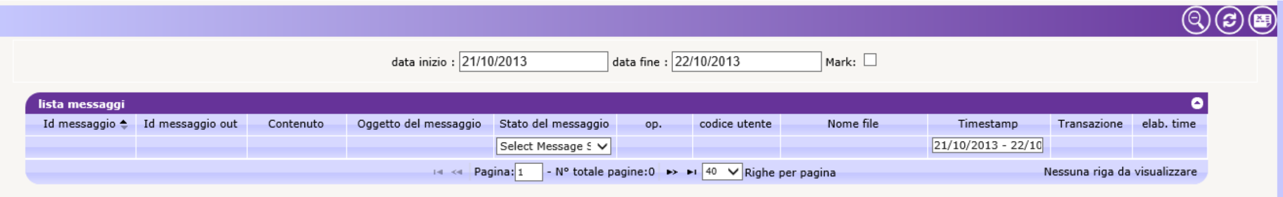


Figure 71: filters and reports in Excel

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 filters section in which, in general, you can enter values that aim to restrict the number of results provided by the underlying report. To reload the report taking account of appropriate filters, it is necessary to click . Finally, you can export the report in Excel format by clicking . After clicking, the page asks you to save the report in Excel format, displaying all the results, obviously without paging them as it happens on the web page.

Some filters are shown for convenience on the columns. 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, e-mail, certificate of authentication and signature of all users entitled to operate for the same participant.

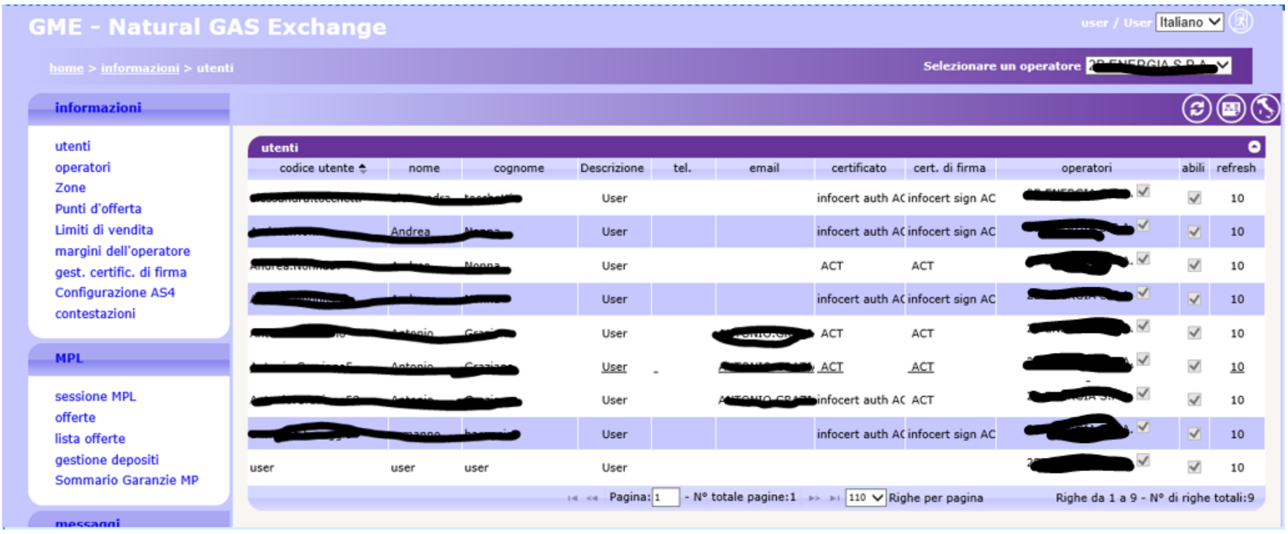


Figure 72: list of participants entitled to the platform

PARTICIPANTS’ PAGE

The participants’ page shows the list of participants authorised to operate on the MPL. This page is read-only and contains information regarding the registered name and the code of the participant.

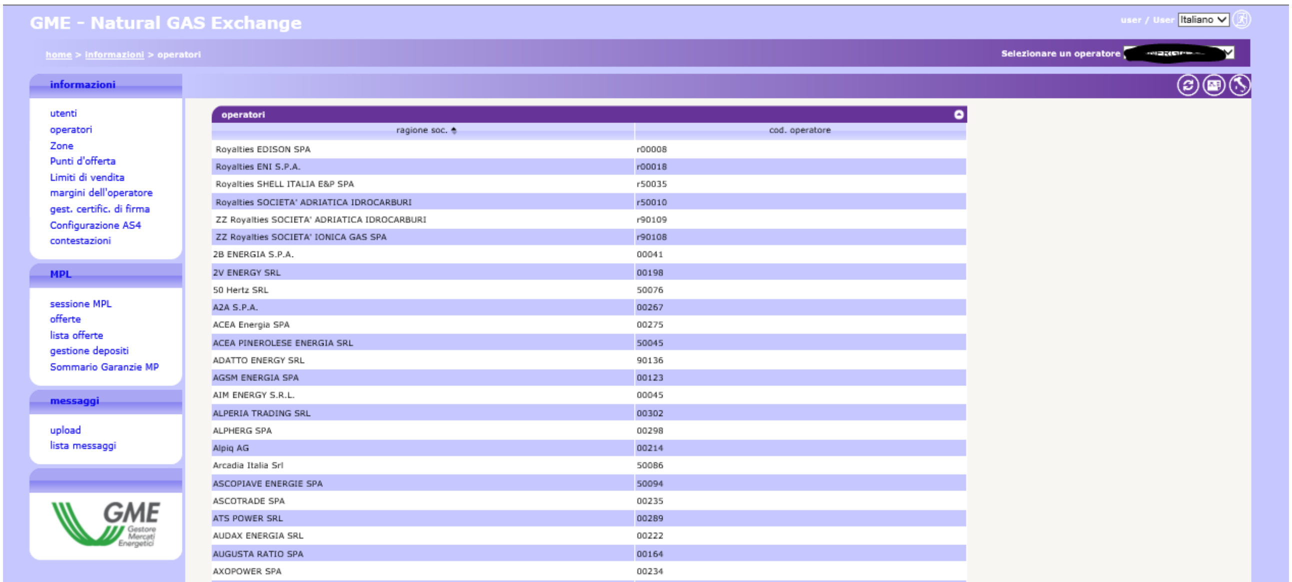


Figure 73: list of participants entitled to the platform

ADDING A NEW SIGNATURE CERTIFICATE

Through the gestione firma (signature management) link, you can access the page that offers users the possibility to manage their signature certificate. If the user fails to have a signature certificate, the page looks like in Figure 74; the link “**Aggiungi**” (Add) allows the user to add a certificate.

Figure 74: the user has no 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, the one that you wish to use to sign the transactions being uploaded to the system, as shown in Figure 75.

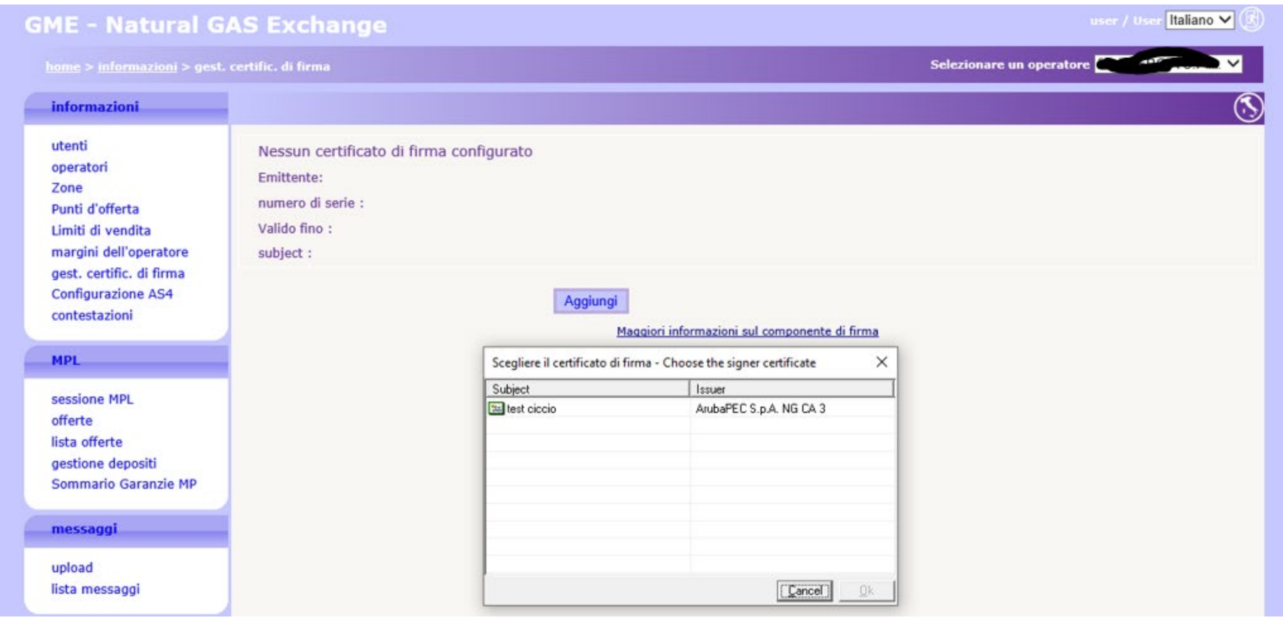


Figure 75: insertion of a new certificate

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).

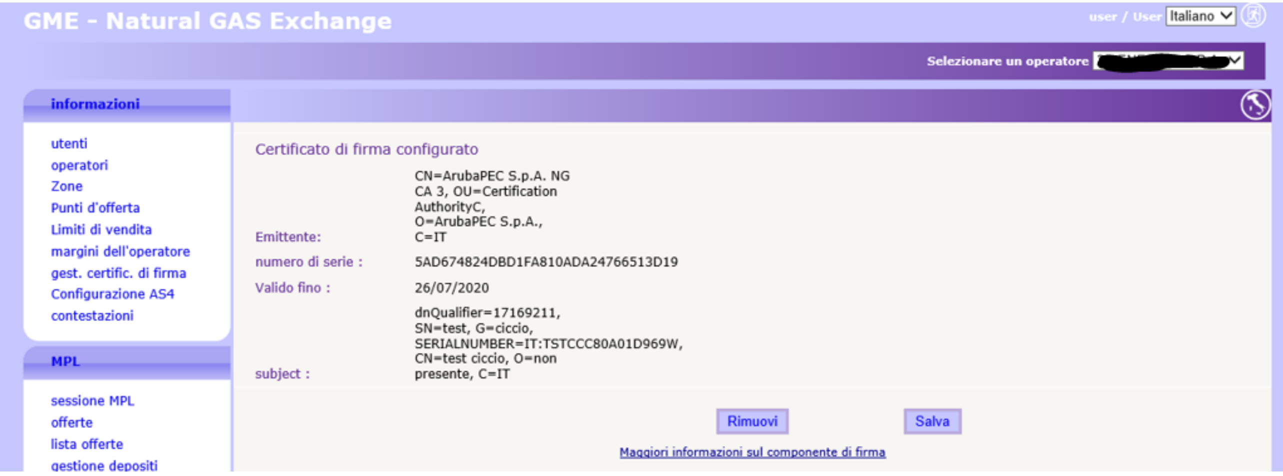


Figure 76: details of the certificate being inserted

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

ZONES PAGE

The zones page is another read-only page that allows to view all the zones in which the user is authorised to operate on behalf of the participant selected in the drop-down menu at the top right and the maximum inter-zonal flows that can move from zone to the other in both directions.

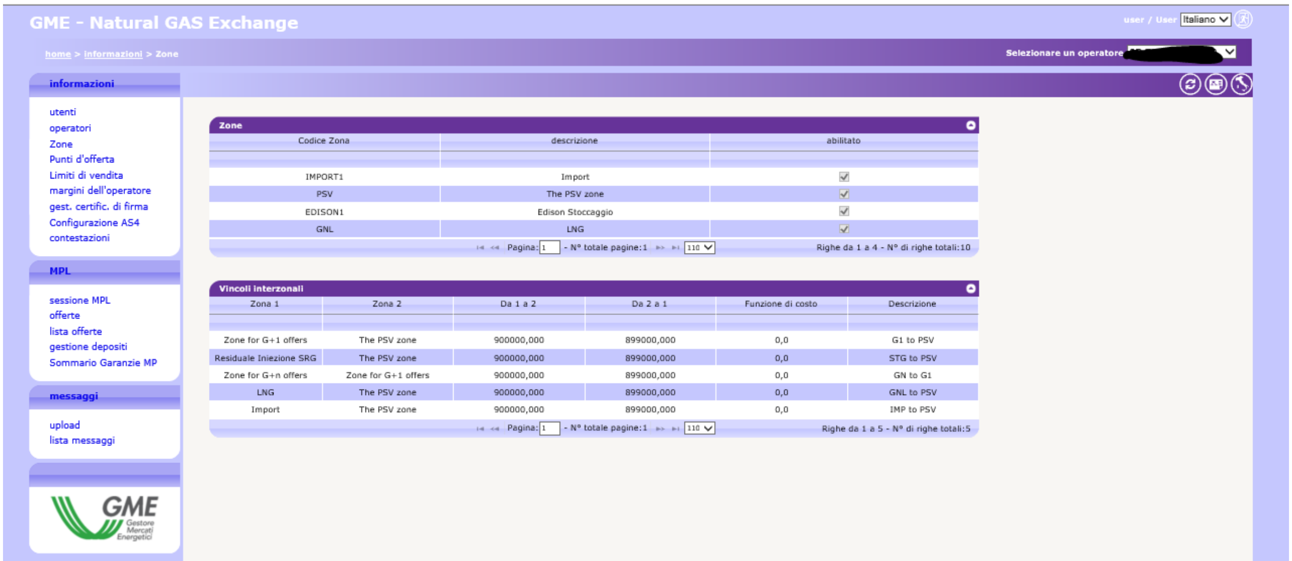


Figure 77: zones page

SALE LIMITS PAGE

The limiti di vendita (sale limits) screen indicates the operating margin of the participant selected in the drop-down menu at the top right, by filtering by date of flow.

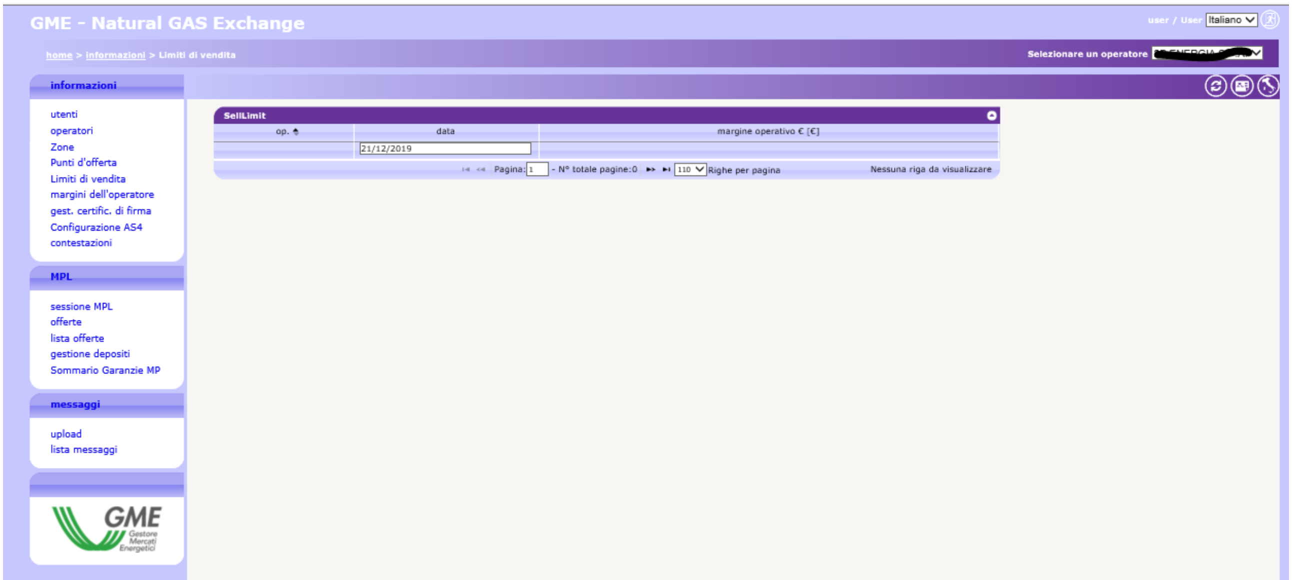


Figure 78: sale limit page

COMPLAINTS

- Figure 79 shows the page of complaints through which you can monitor the progress of complaints. Any complaint can be inserted and then updated by associating new messages with it. You can see the list of all the complaints made by the participant, in particular: the title of the complaint, its status, the code of the company (participant) to 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.

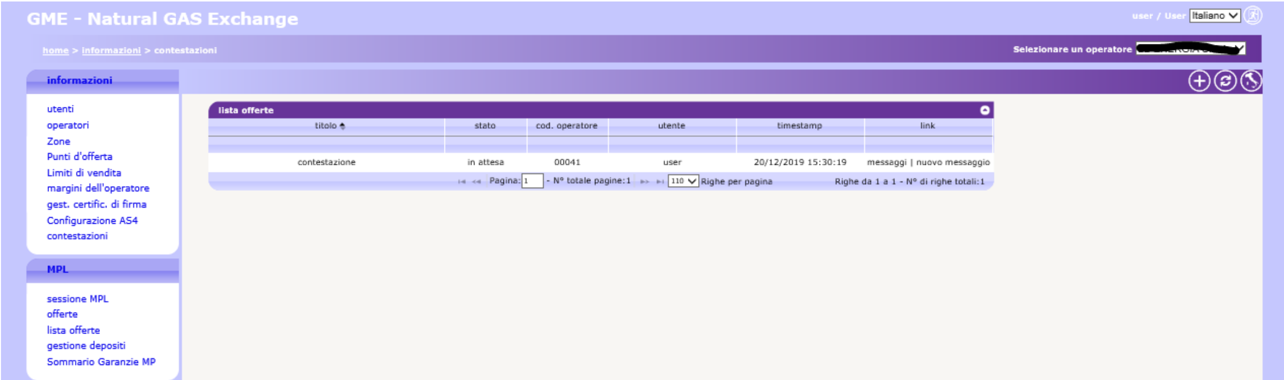


Figure 79:complaints page

With the icon, you can then open the window to add a complaint, as shown in Figure 80.

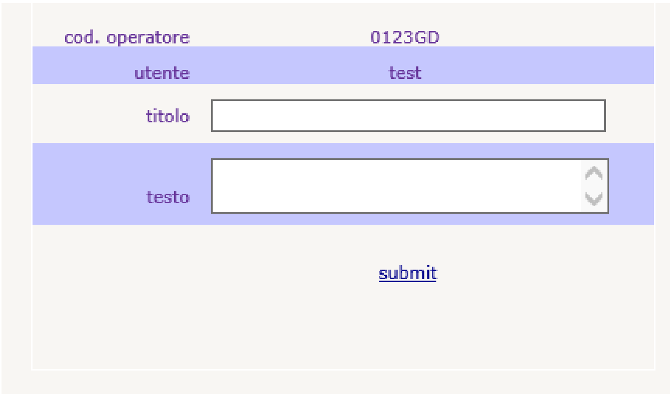


Figure 80: page for entering complaints

OFFER POINTS

Continuing with the series of pages, please find the Punti d'offerta (offer points) page. It a report that lists the offer points enabled to 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 filters.

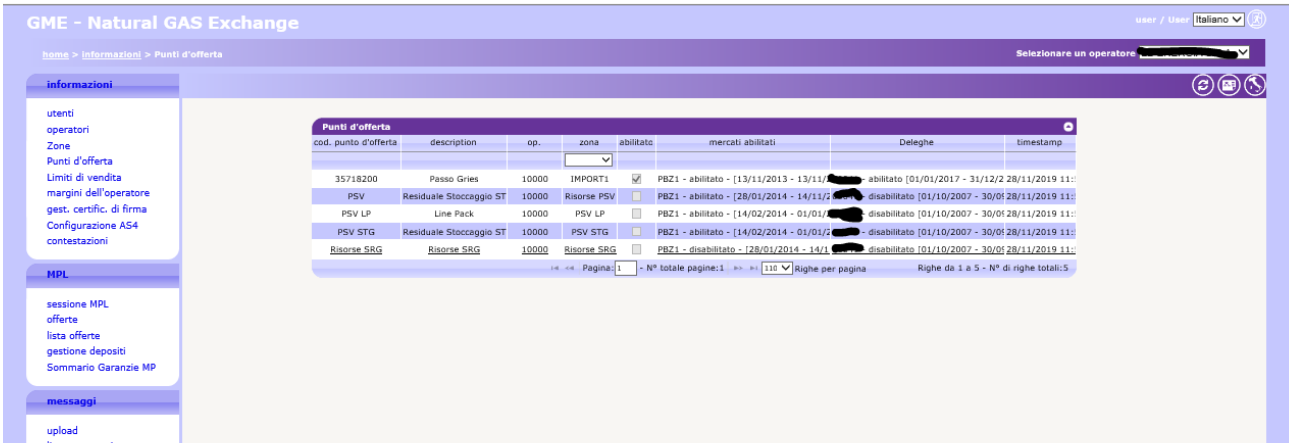


Figure 81: offer points page

The columns displayed are: the code of the offer point, its description, the reference participant, the relevant zone, the enablement, the enabled markets, and any proxy, respectively.

SENDING OFFERS/BIDS

The offerte (offers/bids) page allows you to manage your bids/offers for a specific market session, i.e. sending, modification, and revocation. The page looks like in Figure 82.

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

Just below you can view summary information such as: the volume presented for sale (expressed in MW), the number of bids/offers already submitted in that session, the sale 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.

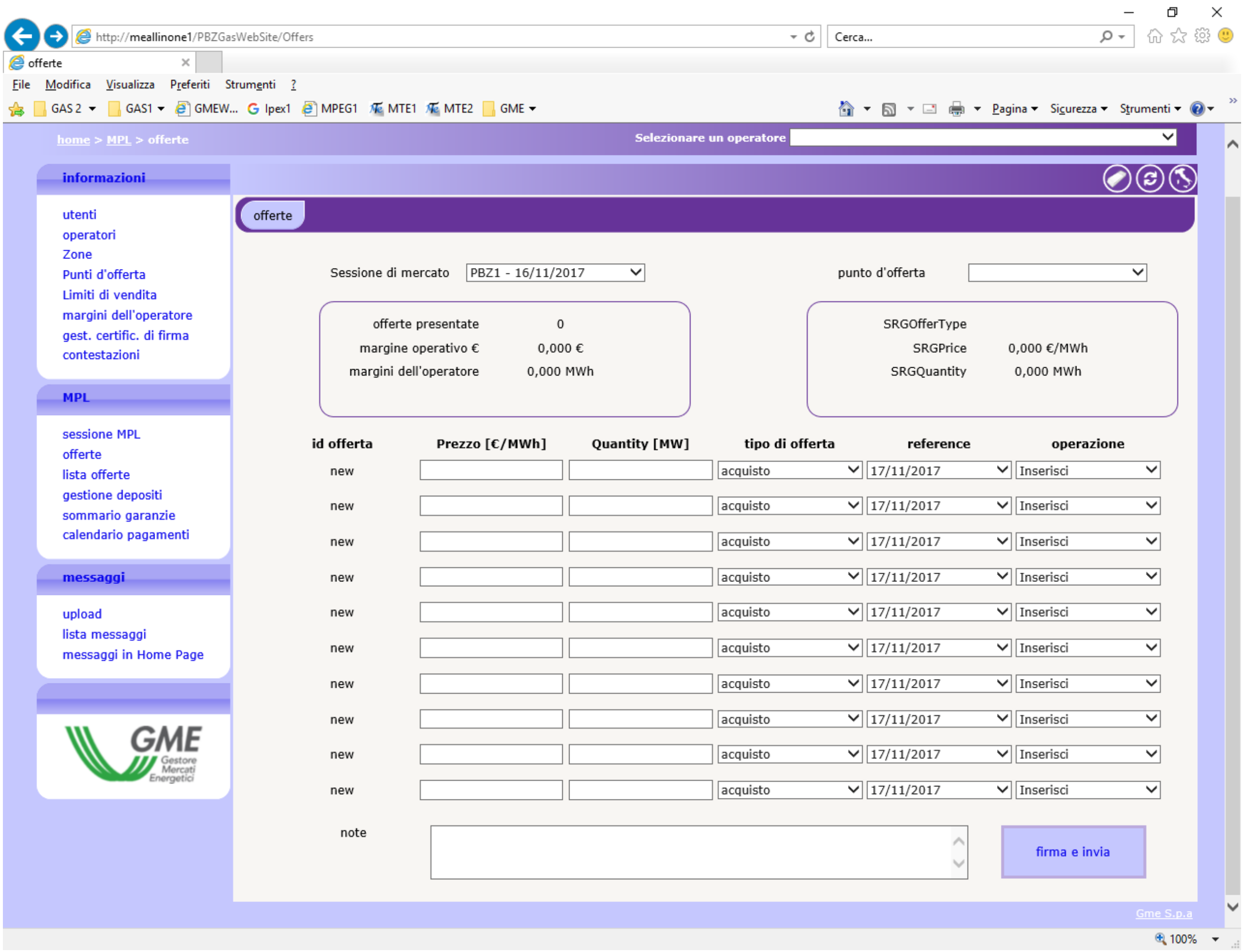


Figure 82: offers/bids submission page

SUBMISSION OF ONE OR MORE OFFERS/BIDS

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

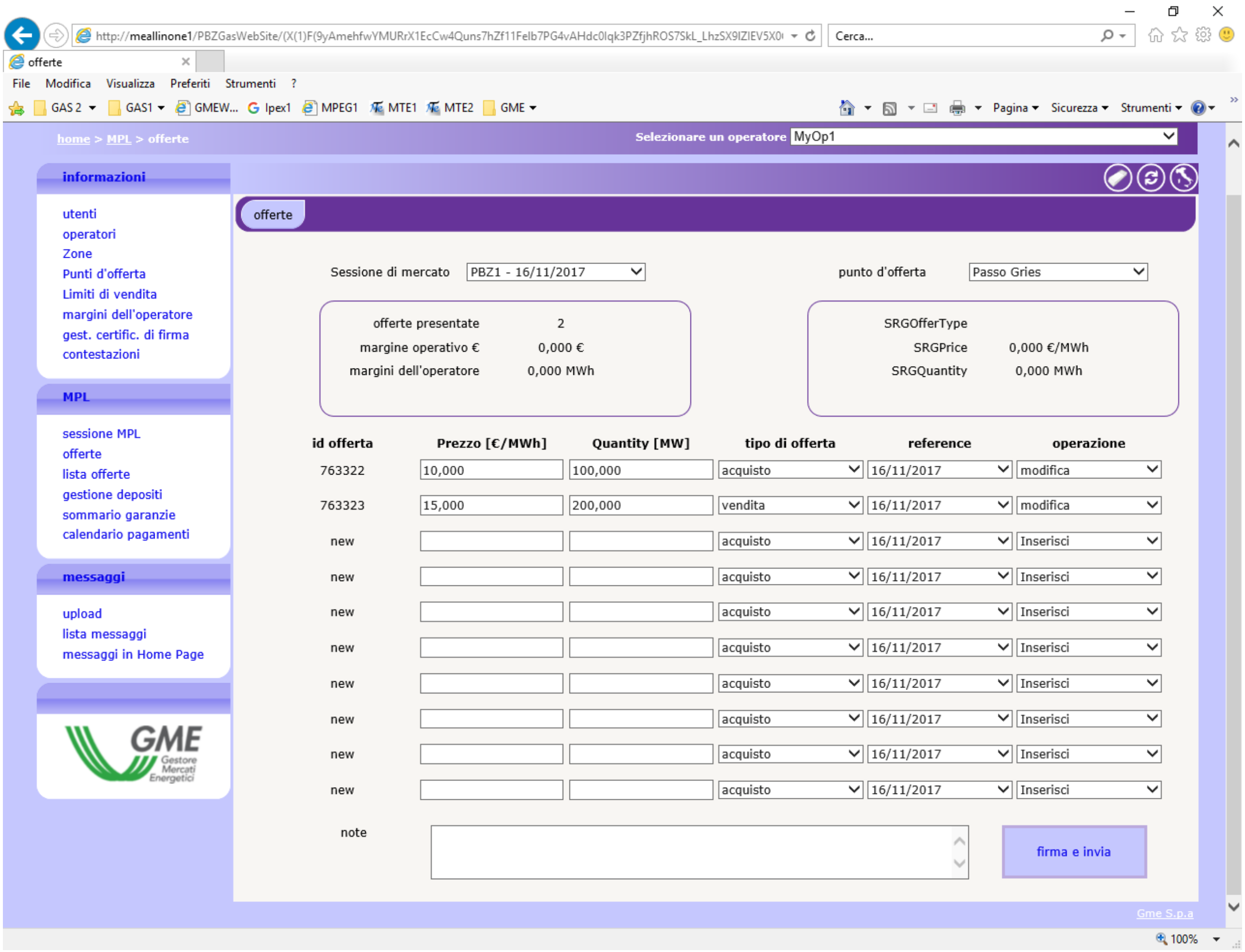


Figure 83: submission of one or more offers/bids

Pressing "sign and send", you proceed with the phase of the transaction signature (Figure 76). There are all the details that characterise the offer/bid. Moreover, the system also shows the operation performed (in this case "enter"); then you will see other possible operations.

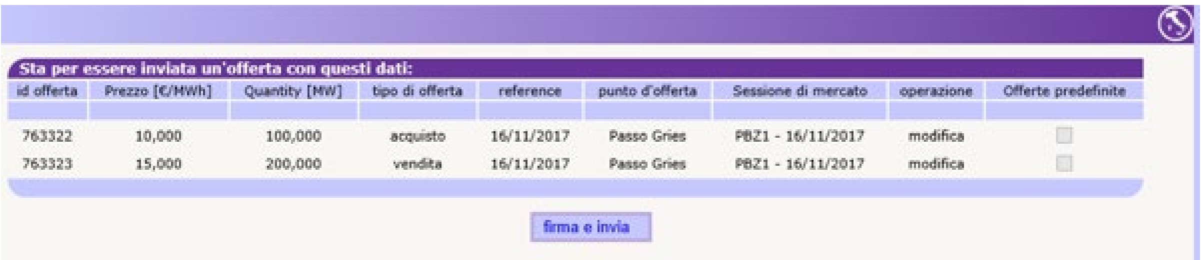


Figure 84: signing and submitting two offers/bids.

After the sending of transactions, you can monitor the results of the transactions by clicking the "Load FA" button, as shown in Figure 85. When the Functional Acknowledgment is 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 point for the submission of bids/offers, you can view the bids/offers already submitted in the offer/bid vector (Figure 86). For these offers/bids, the system also shows the first field (offer/bid ID) completed with the unique identifier characterising each offer/bid on the system. The overlying summary boxes are populated concurrently with the offers/bids submitted to the system.

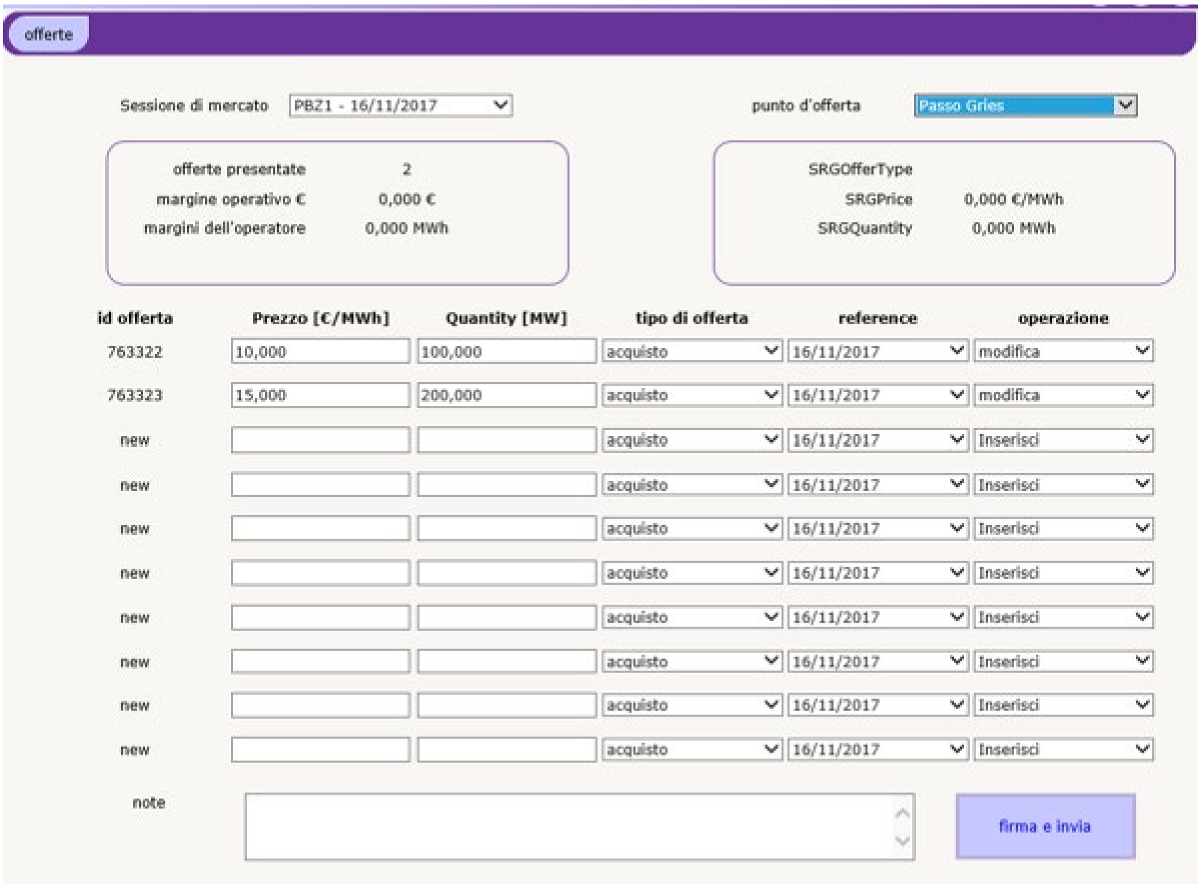


Figure 86: already submitted bids/offers

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.

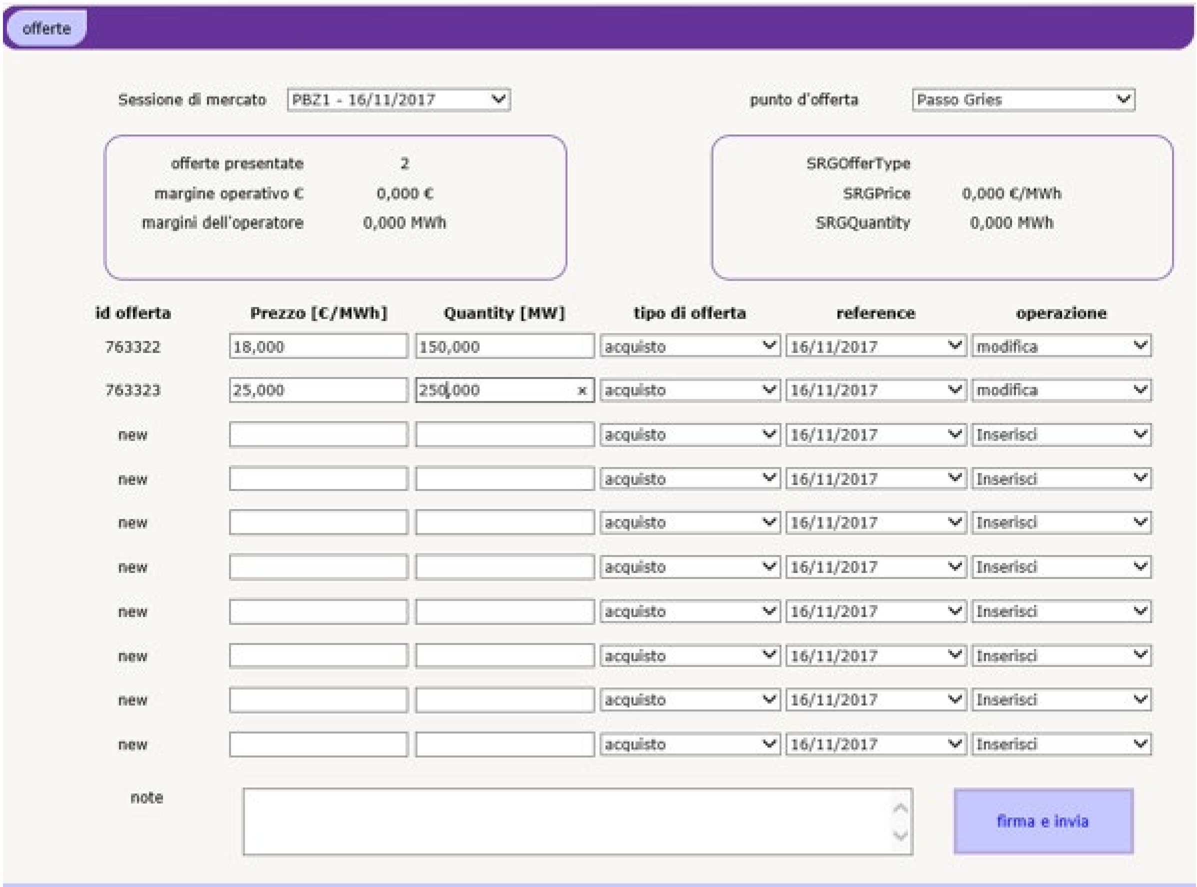


Figure 87: modification and withdrawal of offers/bids

In Figure 88, for example, we revoke the first offer/bid and modify the volume 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. The offer/bid ID field is also populated.

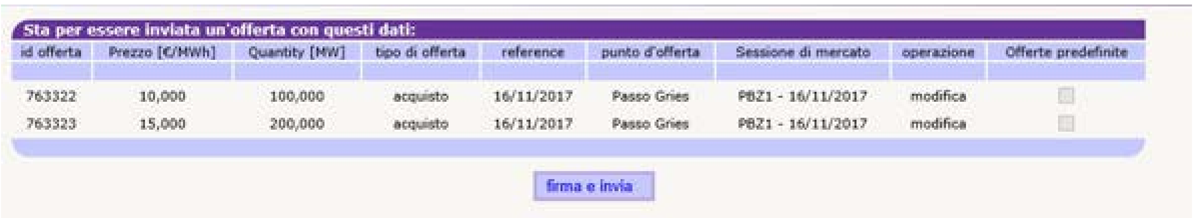


Figure 88: confirmation of modification and revocation

SENDING OTHER OFFERS/BIDS

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 their time priority.

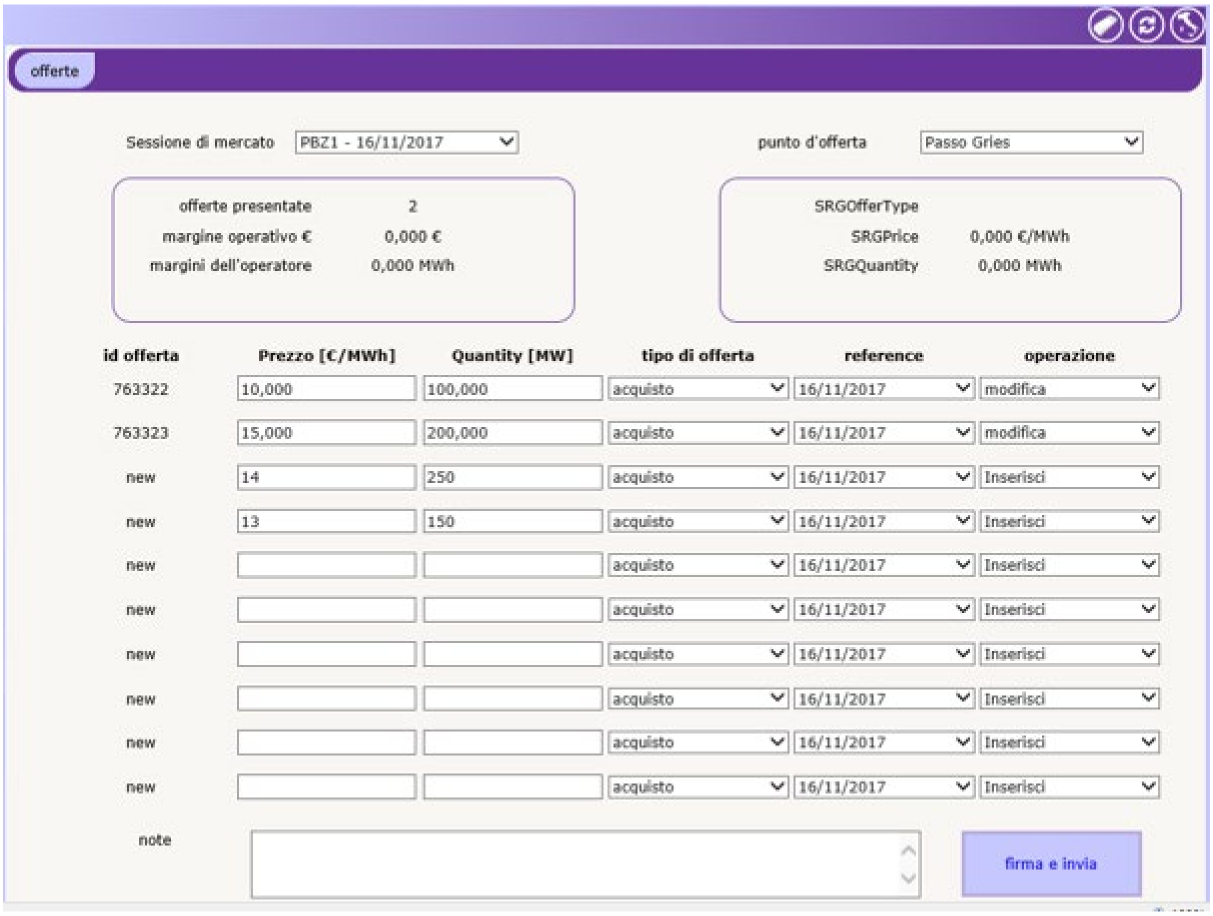


Figure 89: sending other offers/bids

LIST OF OFFERS/BIDS

The list of offers/bids page shown in Figure 90 shows the selected participant's bids/offers.

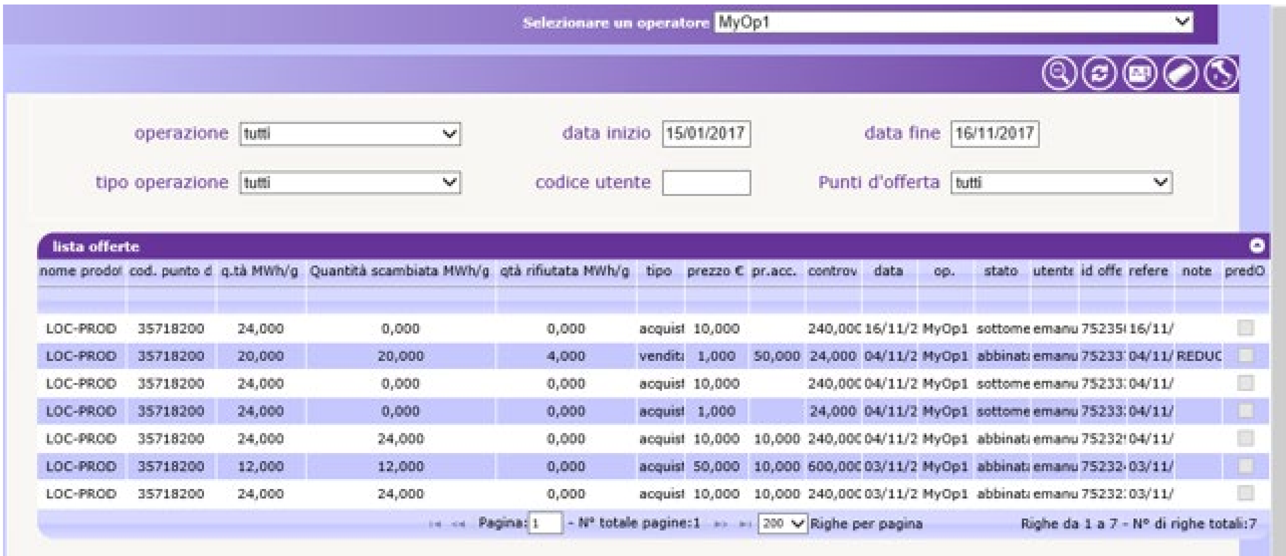


Figure 90: list of offers/bids

Details are provided such as: offer point, volume, volume traded (field completed only after the running of the market), volume rejected due exceedance of sale limits (field completed only after the running of the market), type of offer/bid (sale or purchase), submitted price, accepted price (field completed only after the running of the market), value of the offer/bid, flow date of the session, offer/bid status, user that sent the offer/bid, offer/bid ID, and any notes.

MARKET SESSIONS PAGE

Clicking the MPL sessions, you open the page that shows the market sessions of the current day and of the previous three days (Figure 91). The information displayed covers the flow date of the session, the dates of opening and closing of the session, the status of the session, the aggregate results (including the SRG offer/bid), and finally the button through which you may view the net positions, distinguished by participant and by offer point. However, from the first cell of the "date" column you may select any session or range of past sessions by flow date.

Figure 91: sessions list

DEPOSIT MANAGEMENT

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

The first report contains information such as the code and the registered name of the participant, the initial amount of the deposits and the last paid date.

By clicking you may view the underlying report, which provides the details of the deposits and of the credit/debit adjustments.

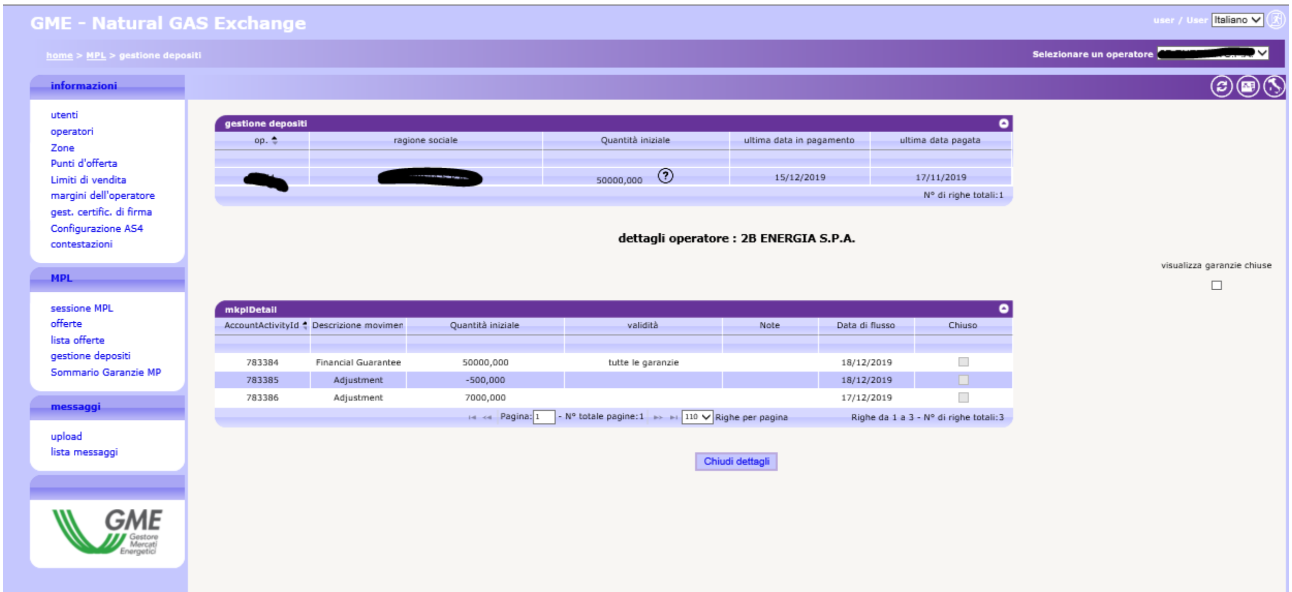


Figure 92: deposit management

By checking the **visualizza garanzie chiuse** (show closed guarantees) box, you may view possible closed deposits and credit/debit adjustments.

SUMMARY OF MP GUARANTEES

On the sommario garanzie (summary of guarantees) page, you may view but not modify the status of the financial guarantees of the participants that the user represents (Figure 93). For each participant, the page shows the code, the registered name, and

- 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 the Netting);
- in the section "Dettaglio Garanzie" (Guarantees Detail), all the deposits and bank guarantees relating to the centralised Netting guarantee system and the credit and debit adjustments 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 the Netting, and the valid credits of the MP spot gas market only.

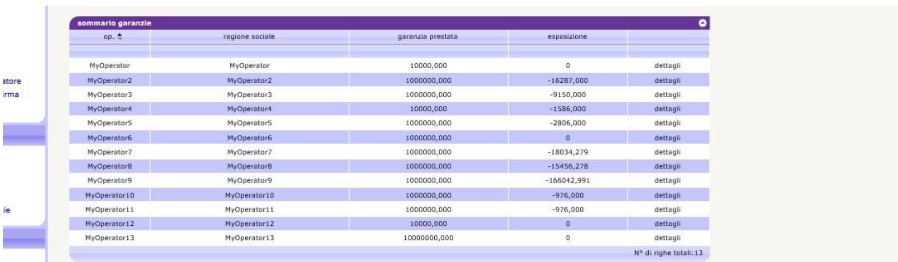


Figure 93: summary of guarantees

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 94).

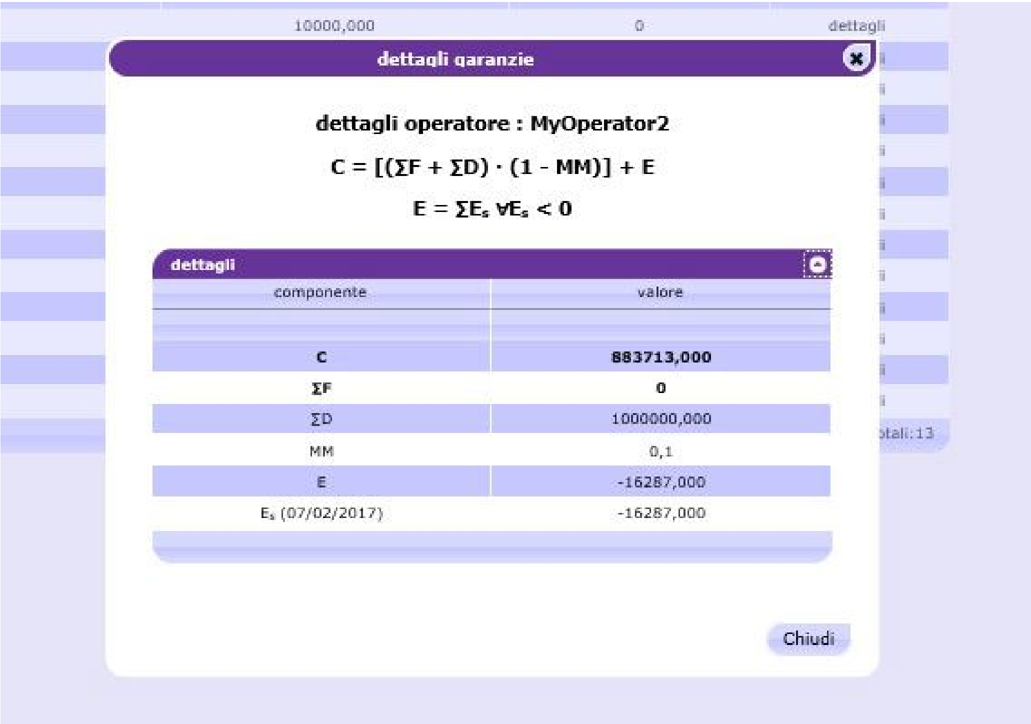


Figure 94: details of the financial guarantee

UPLOADING XML FILES

Through the upload page, the user can directly upload the xml file for submission/modification of bids/offers or for changing bids/offers (Figure 95).

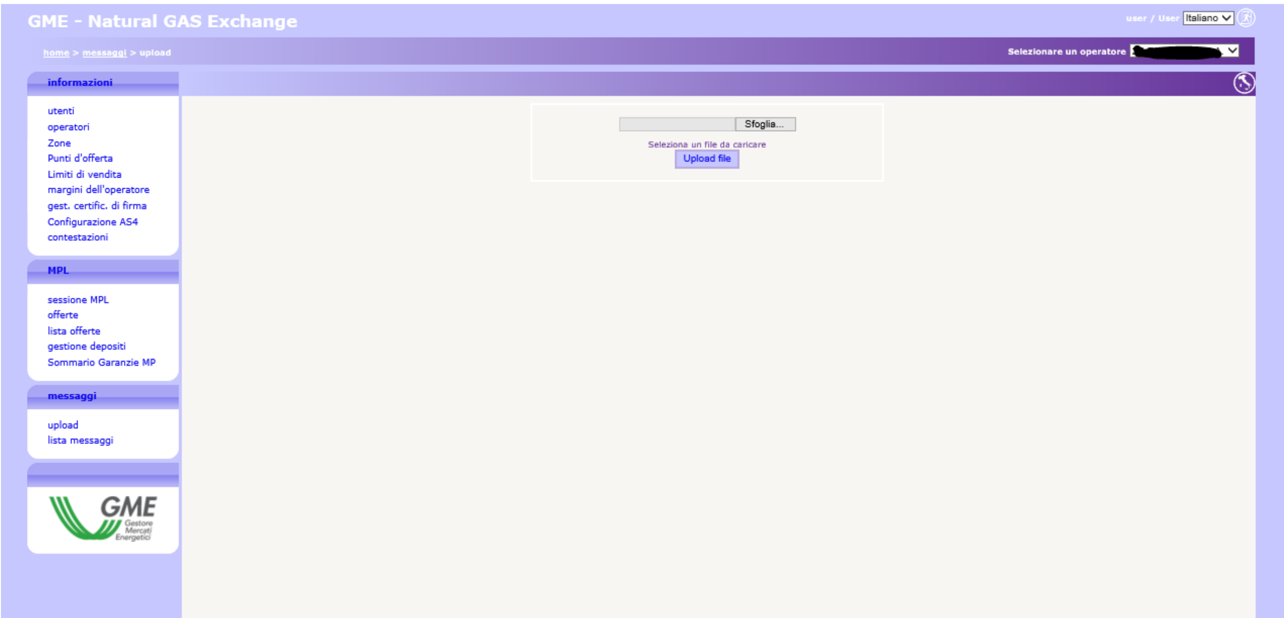


Figure 95: uploading xml files

The user must prepare the xml file with an appropriate 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.

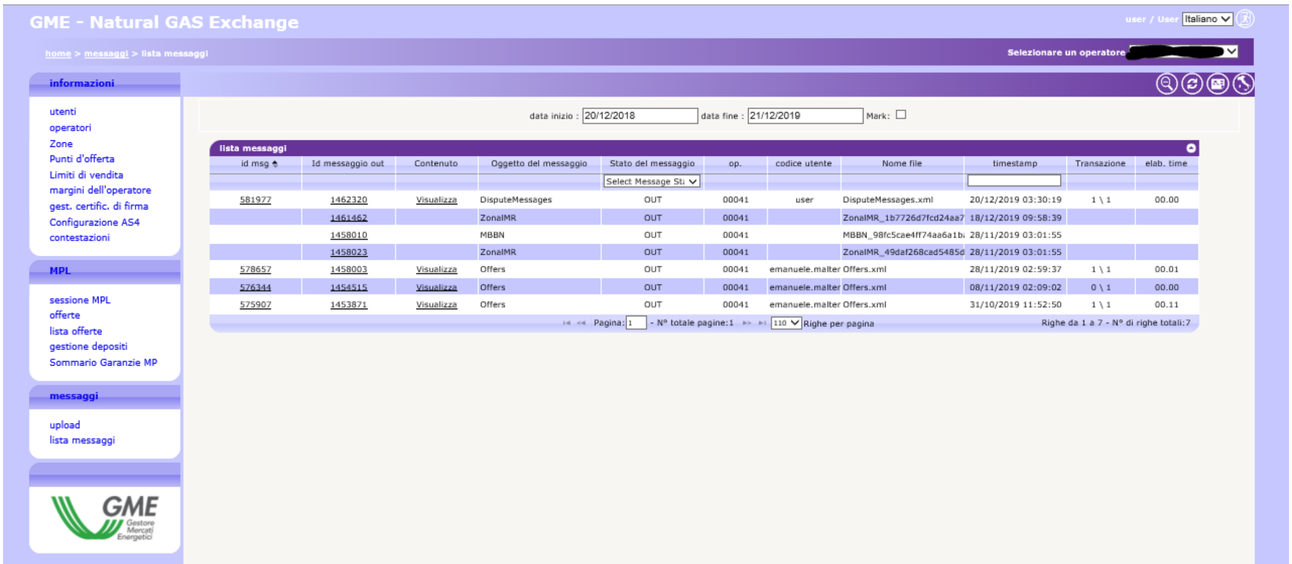


Figure 96: messages list

The page is organised as follows: the first column displays the unique ID attributed to the xml input 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 ID of file with 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 represents the preview of every action, submitted immediately before the action.

Then, you may view the message subject and especially the status of the message that can be as follows:

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

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 97). If selected, it causes the system to mark the outcome file as downloaded. This action has an impact on the download of files via the web service, because the system will ignore the already downloaded files, returning only those that have not yet been examined by the user. Downloading from the interface an XML file with the **mark** checkbox selected will result into failure to download the same file through the web service.

Figure 97: messages list filters

We have seen how every action (xml input transaction) corresponds to an xml outcome file (FA). The messages list displays also outcome files other than the FAs, which do not correspond to any input file. Figure 96, first line, shows a **Bid Notification** (**BN**) that reports the outcome of the matching of an offer/bid submitted by the participant.

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

FEATURES OF THE MAST PORTAL

This section describes the features offered by the MAST portal. First, the user must be entitled to the portal.

THE HOMEPAGE

Figure 98 shows the main 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**). Next to it there is a drop-down menu that allows you to choose the language of the content of the portal. The content of the pages will be translated into 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 figures: the comma (",") for Italian and the point (".") 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 himself/herself again to access the portal.

Figure 98: 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.

MENU

In section (**3**) there is a 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 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.

MAIN CONTENT

The last section (**4**) shows the content of the pages. The homepage, namely the page shown in Figure 98, 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.

Figure 99: 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 considering 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 it happens on the web page.

USERS' PAGE

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

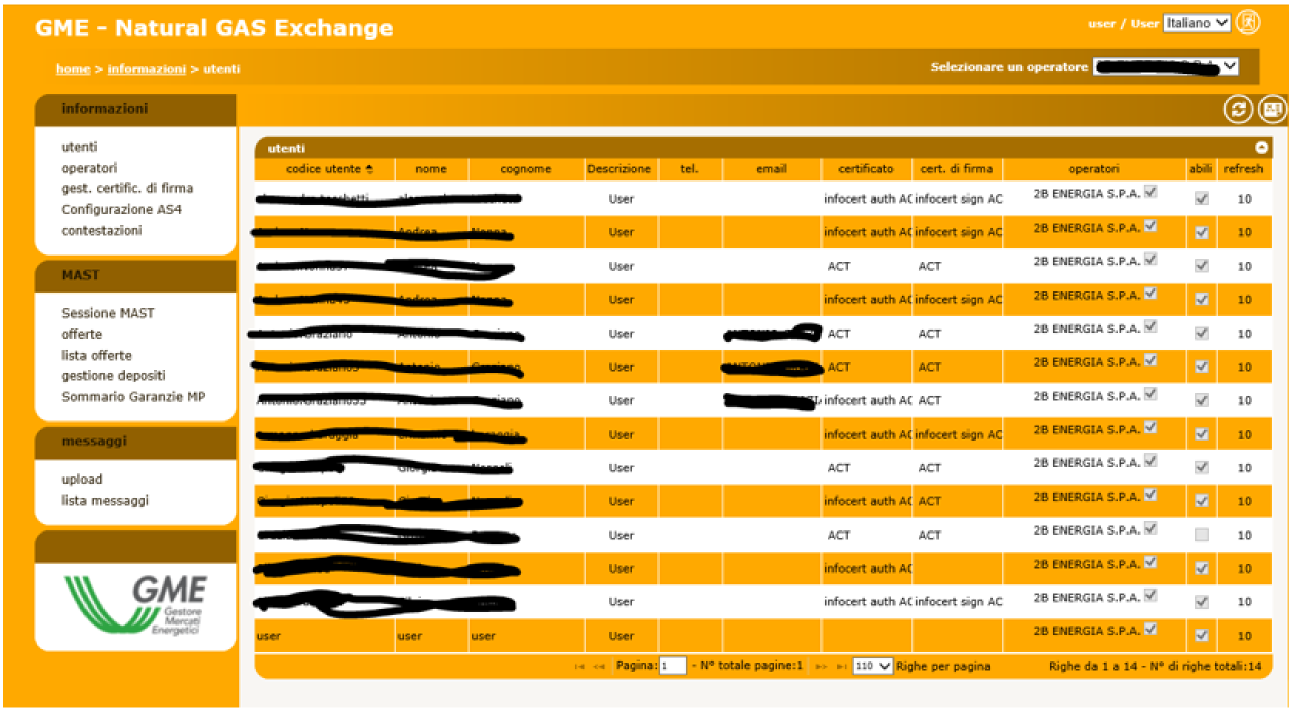


Figure 100: list of users associated with the participant

PARTICIPANTS’ PAGE

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

operatori

ragione soc.	cod. operatore	abilitato	conti
Royalties EDISON SPA	r00008	✓	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	✓	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	✓	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	✓	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 101: 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 fails to have a signature certificate, the page looks like in Figure 102; the **Add** link allows the user to add a certificate.

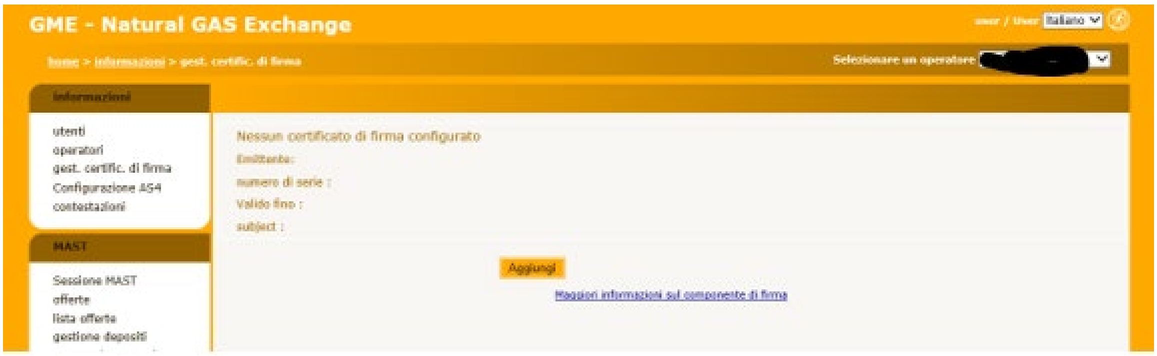


Figure 102: the user has no signature certificate. The page allows you to add one

By clicking on the **Add** link, you can choose, among the certificates installed on the user's computer, the one that you wish to use to sign the transactions being uploaded to the system, as shown in Figure 102.

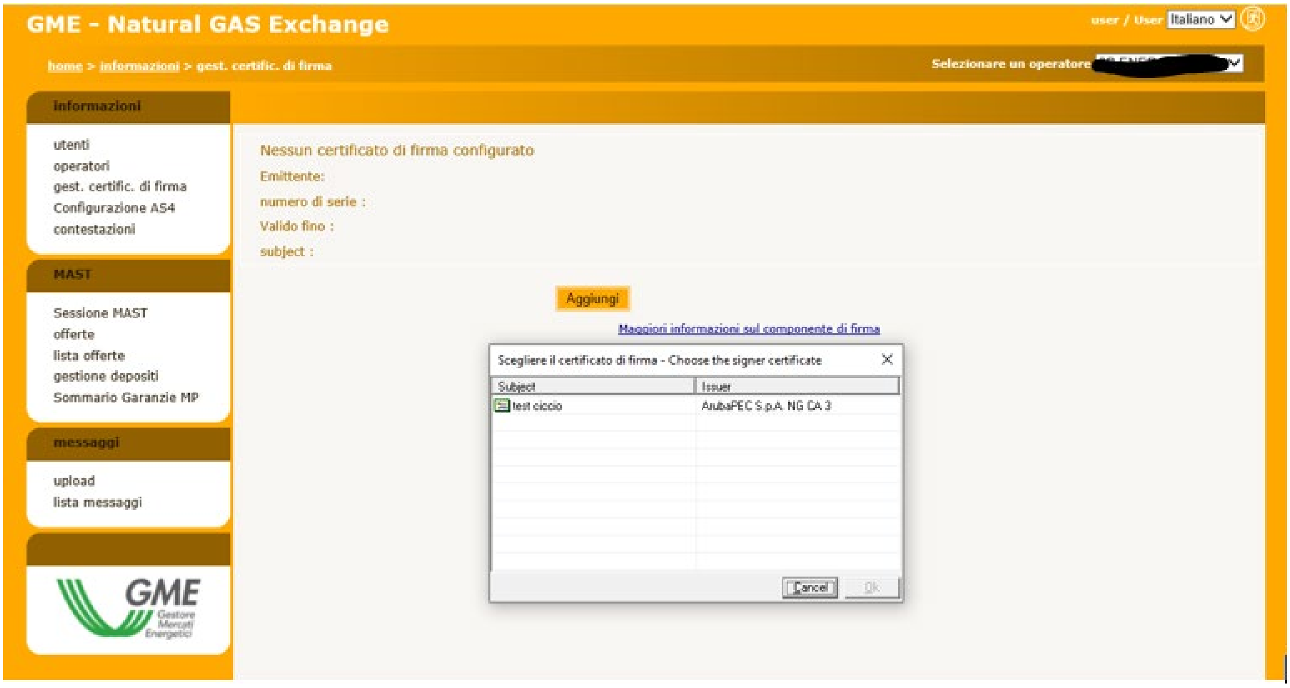


Figure 104: insertion of a new certificate

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.

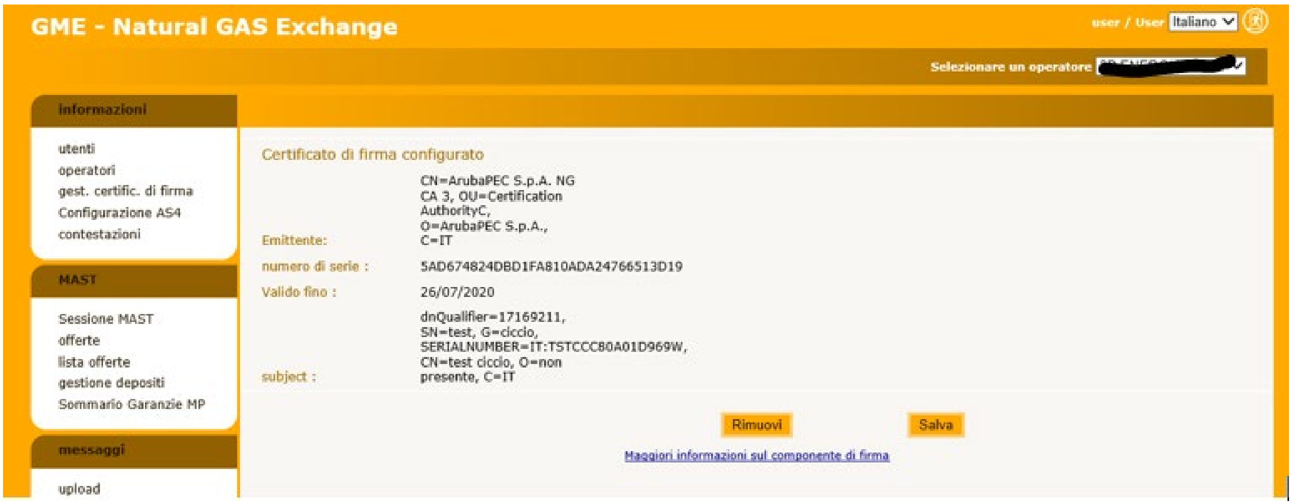


Figure 104: details of the certificate being inserted

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

COMPLAINTS

- Figure 105 shows the page of complaints through which you can monitor the progress of complaints. Any complaint can be inserted and then updated by associating new messages with it. You can see the list of all the complaints made by the participant, in particular: the title of the complaint, its status, the code of the company (participant) to 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 105: complaints page

By using the icon you can then open the window to add a complaint, as shown in Figure 106.

Figure 106: page for inserting complaints

MAST SESSION

By clicking on the MAST session, you open the page showing the market sessions of the current day and the previous three days (Figure 107). The information displayed concerns 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 cell of the "flow date" column, however, you can select any session or range of past sessions by flow date.

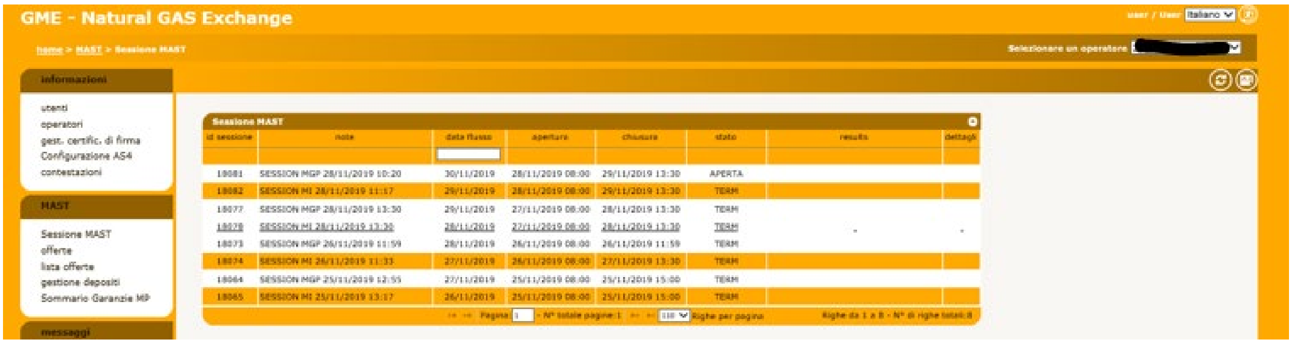


Figure 107: MAST session page

SUBMITTING BIDS/OFFERS

The bids/offers page allows you to manage bids/offers for a specific market session, i.e. sending, changing, and revoking. The page looks like Figure 108.

On analysing 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 as valid during the execution phase only if their sign is opposite to the sign of the net balance of bids/offers submitted by SRG TSO.

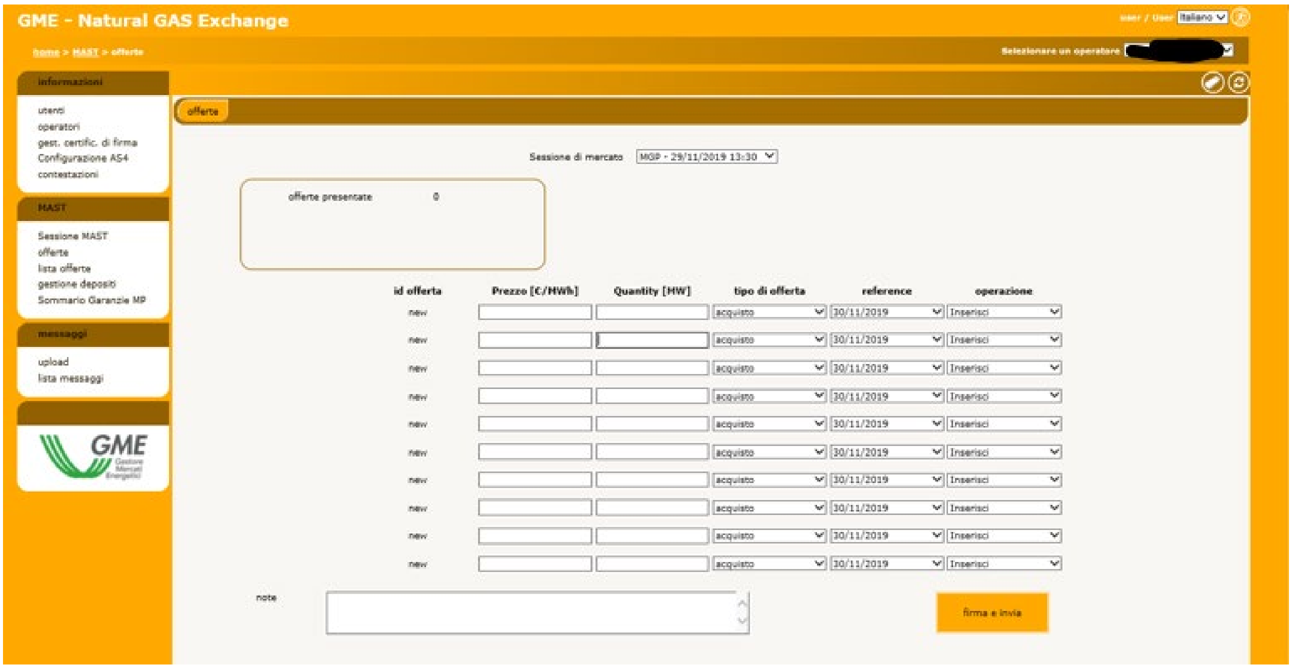


Figure 108: page for submitting bids/offers

SUBMITTING ONE OR MORE BIDS/OFFERS

Figure 109 shows an example of sending of two offers/bids: a supply offer and a demand bid. To send, you must previously select an offer point and fill in the fields related to the price and volume (expressed in MW).

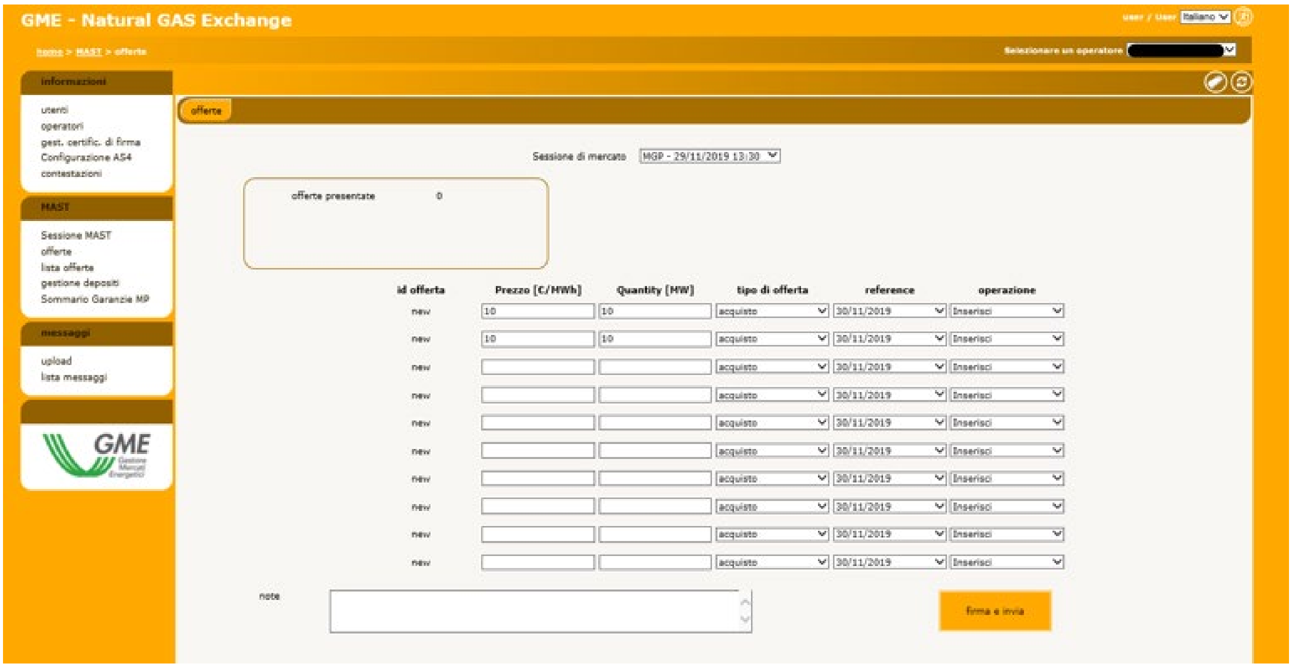


Figure 109: submission of one or more bids/offers

Pressing "sign and send", you proceed with the phase of the transaction signature (Figure 110). The system shows all the details that characterise the offer/bid and the operation performed (in this case "enter"); then you will see other possible operations.

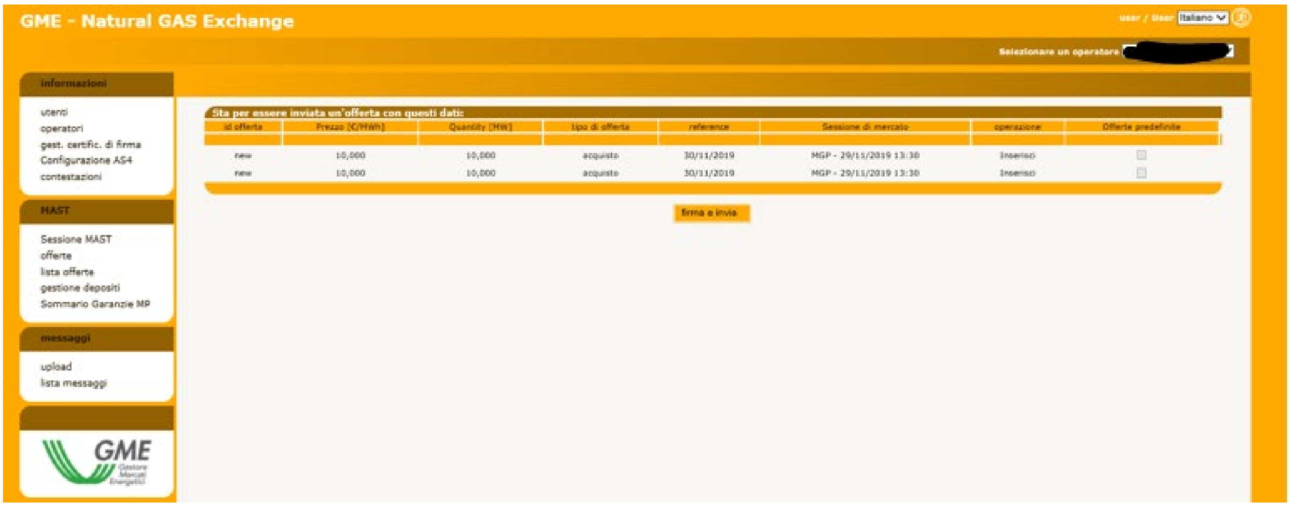


Figure 110: signing and submitting two bids/offers

After the sending of transactions, you can monitor the results of the transactions by clicking the "Load FA" button, as shown in Figure 111. When the Functional Acknowledgment is available, you will see a link that lets you download the xml file locally. You can view the outcome of the transaction at any time, via the messages list page.

Figure111: loading the FA

Now, reloading the page and selecting the previously selected offer point for the submission of bids/offers, you can view the bids/offers already submitted in the offer/bid vector (Figure 112). For these offers/bids, the system populates the first field (offer/bid ID) with the unique identifier characterising each offer/bid on the system. The overlying summary boxes are populated concurrently with the offers/bids submitted to the system.

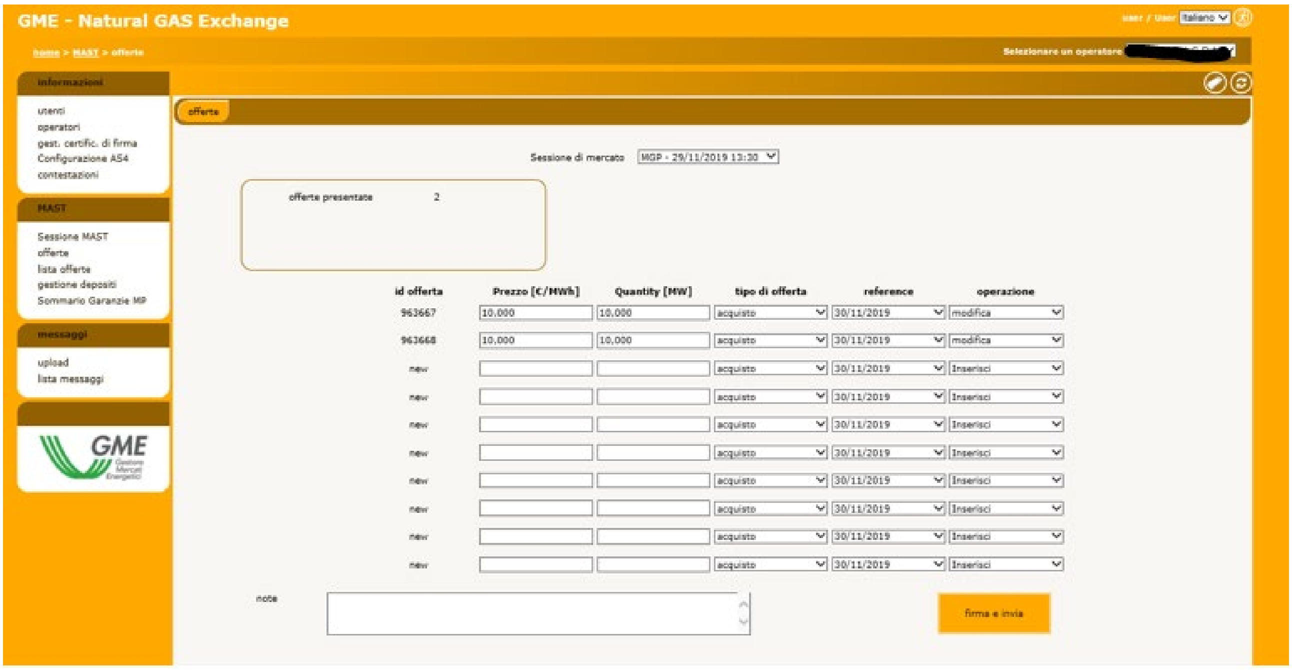


Figure 112: bids/offers already submitted

MODIFICATION AND REVOCATION OF BIDS/OFFERS

In Figure 113 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.

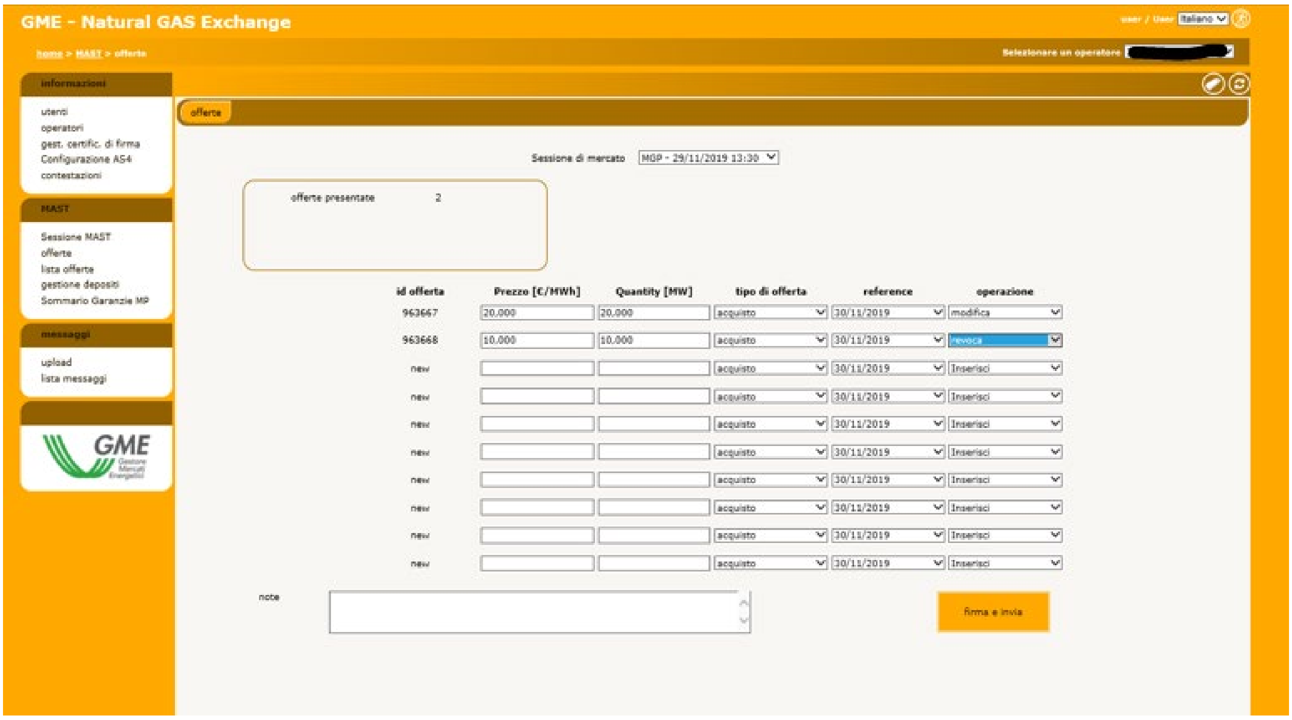


Figure 113: modification and revocation of bids/offers

In Figure 114, as an example, we revoke the first bid/offer and change the volume 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 populated.

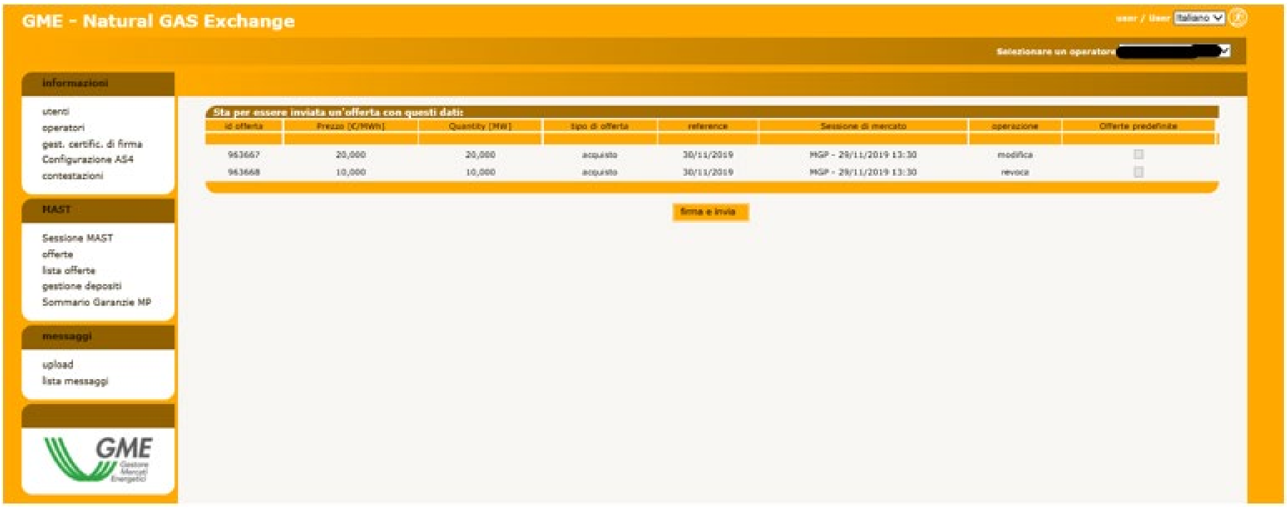


Figure 114: confirmation of modification and revocation

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 their time priority.

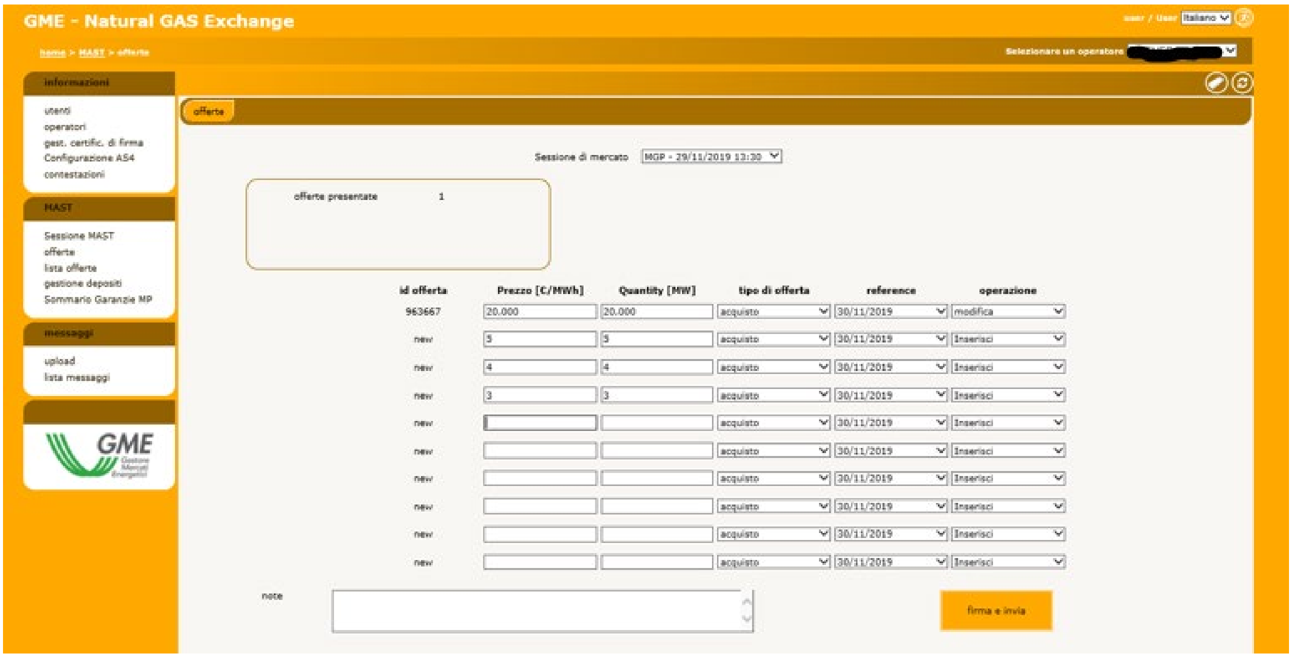


Figure 115: submitting other bids/offers

LIST OF BIDS/OFFERS

The bids/offers list page shown in Figure 116 shows the bids/offers for the selected participant.

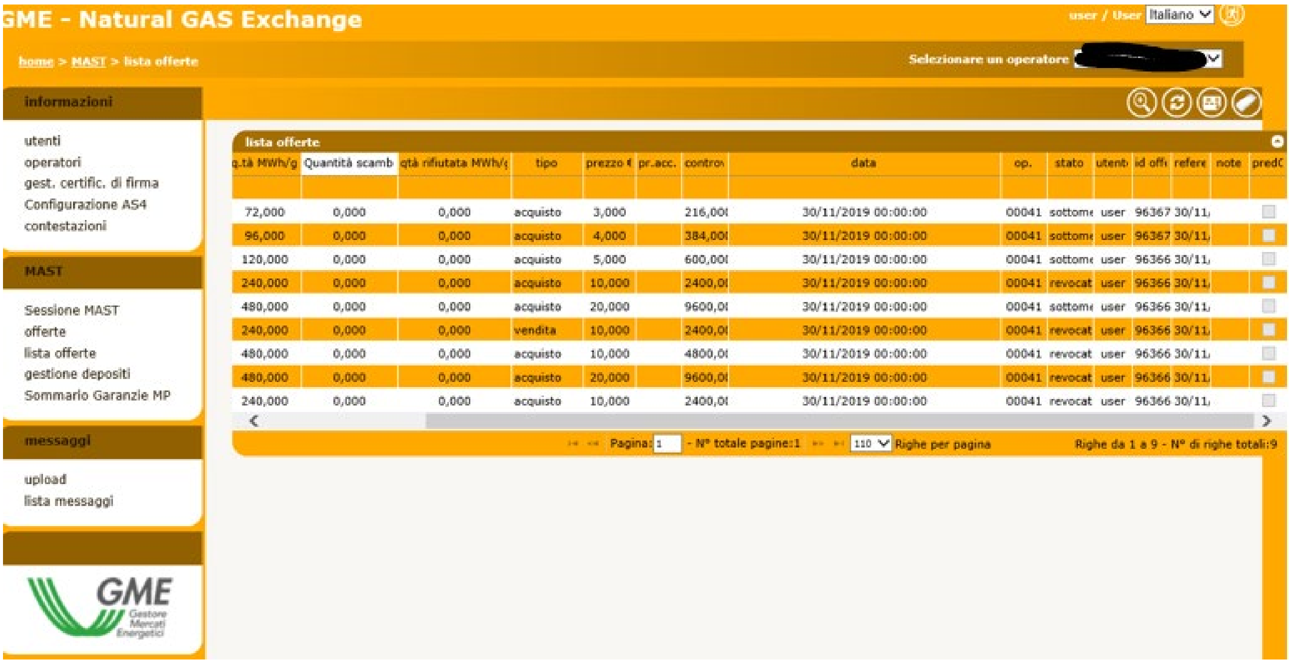


Figure 116: list of bids/offers

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

Regarding the net positions, you will only see those of the participants falling under the responsibility of the user currently authenticated on the system.

DEPOSIT MANAGEMENT

On the gestione depositi (deposit 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 deposits, and the last paid date.

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

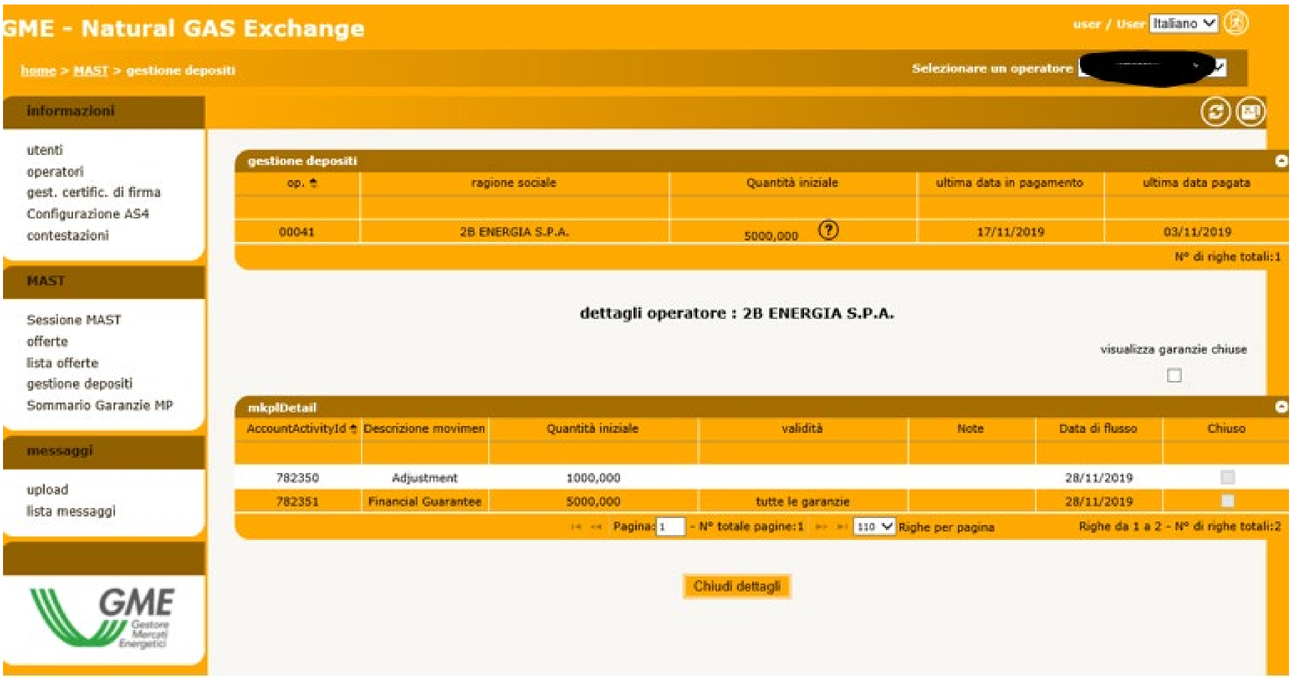


Figure 117: deposit management

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

SUMMARY OF MP GUARANTEES

The sommario garanzie (summary of guarantees) page allows you to view but not modify the status of the financial guarantees relating to the spot gas market (MP) of the participants that you represent (Figure 118). For each participant selected from the drop-down menu there are:

- 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 the Netting);

- in the section “Dettaglio Garanzie” (Guarantees Detail) all the deposits and bank guarantees relating to the centralised Netting guarantee system and the credit and debit adjustments 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 the Netting, and the valid credits of the MP spot gas market only.

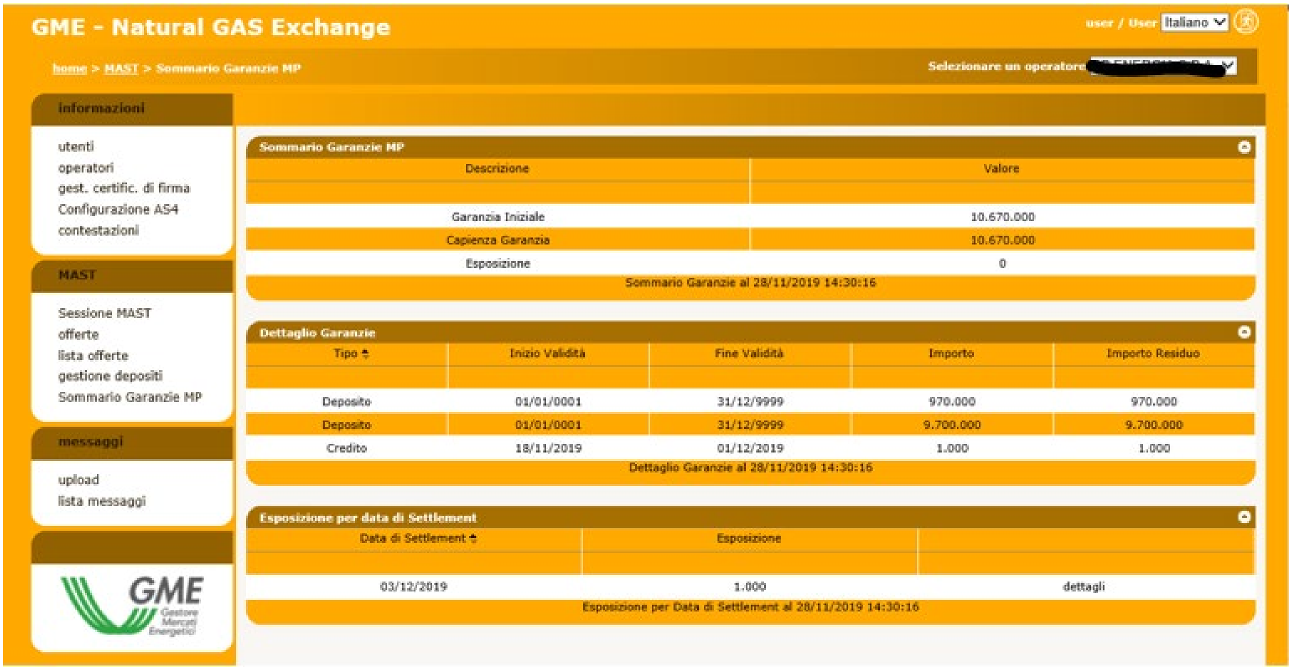


Figure 118: summary of guarantees

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 119).

Figure 119: 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 bids/offers or for changing the status of bids/offers (Figure 120).

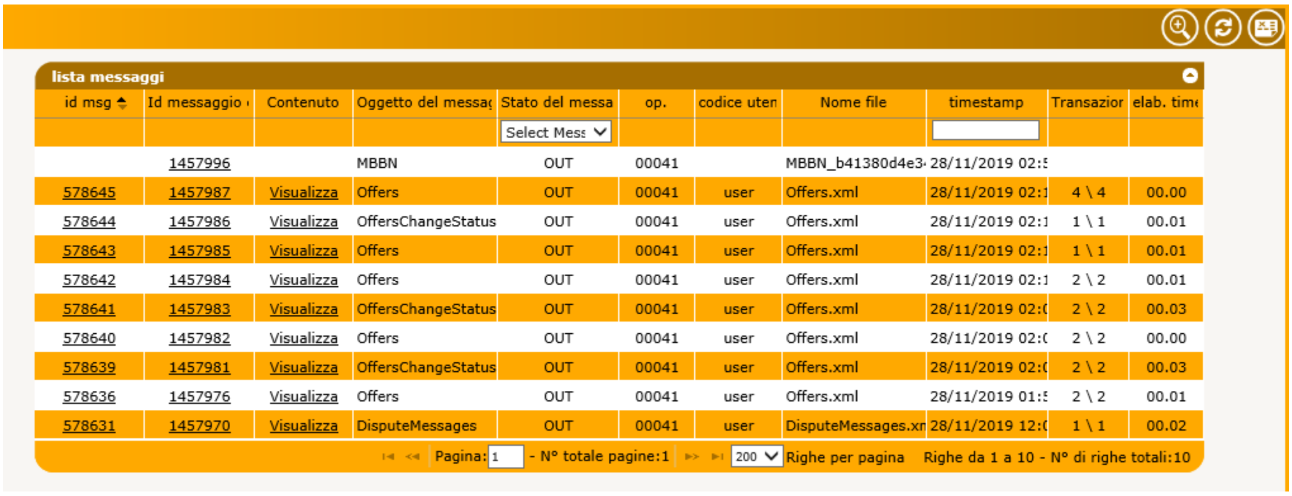
Figure 120: upload of xml file.

The user must prepare the xml file with an appropriate editor and then arrange the upload by selecting the file, signing its 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.



lista messaggi

id msg	Id messaggio	Contenuto	Oggetto del messa(	Stato del messa	op.	codice uten	Nome file	timestamp	Transazior	elab. time
				Select Mess						
	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:(	2 \ 2	00.03
578640	1457982	Visualizza	Offers	OUT	00041	user	Offers.xml	28/11/2019 02:(	2 \ 2	00.00
578639	1457981	Visualizza	OffersChangeStatus	OUT	00041	user	Offers.xml	28/11/2019 02:(	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.xr	28/11/2019 12:(	1 \ 1	00.02

Pagina: 1 - N° totale pagine:1 200 Righe per pagina Righe da 1 a 10 - N° di righe totali:10

Figure 121: messages list

The page is organised as follows: the first column displays the unique ID attributed to the xml input message, produced by the 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 ID of the transaction outcome file. 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 represents the preview of every action, submitted immediately before the action.

Then, you may view the message subject and especially the status of the message that can be as follows:

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

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 122). If selected, it causes the system to mark the outcome file as downloaded. This action has an impact on the download of files via the web service, because the system will ignore the already downloaded files, returning only those that have not yet been examined by the user. Downloading from the interface an XML file, with the **mark** checkbox selected, will result into failure to download the same file through the web service.

Figure 122: messages list filters

We have seen how every action (xml input transaction) corresponds to an xml outcome file (FA). The messages list displays also outcome files other than the FAs, which do not correspond to any input file. Figure 121, first row, shows a **Bid Notification** (**BN**) that reports the outcome of the matching of an offer/bid submitted by the participant.

FEATURES OF THE SOL 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 in the applicable legislation, the user must register with the portal, following the procedure shown on page 5.

HOMEPAGE

Figure 123 shows the homepage of the portal, with the numbers of 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**). Beside it, there is a drop-down menu on which you may choose the language in which the portal content is to be displayed. The content of the pages will be translated into the selected language. In addition to the translation of the textual parts, the change of the language will involve the display of the date in the Italian format (*it-IT*) or in the English format (*en-US*), and the decimal separator for figures: a comma (“,”) in Italian and a point (“.”) for English.

By clicking on the icon on the right, you may exit the portal, closing the session. At this stage, if you wish to access the portal, you must authenticate yourself again.

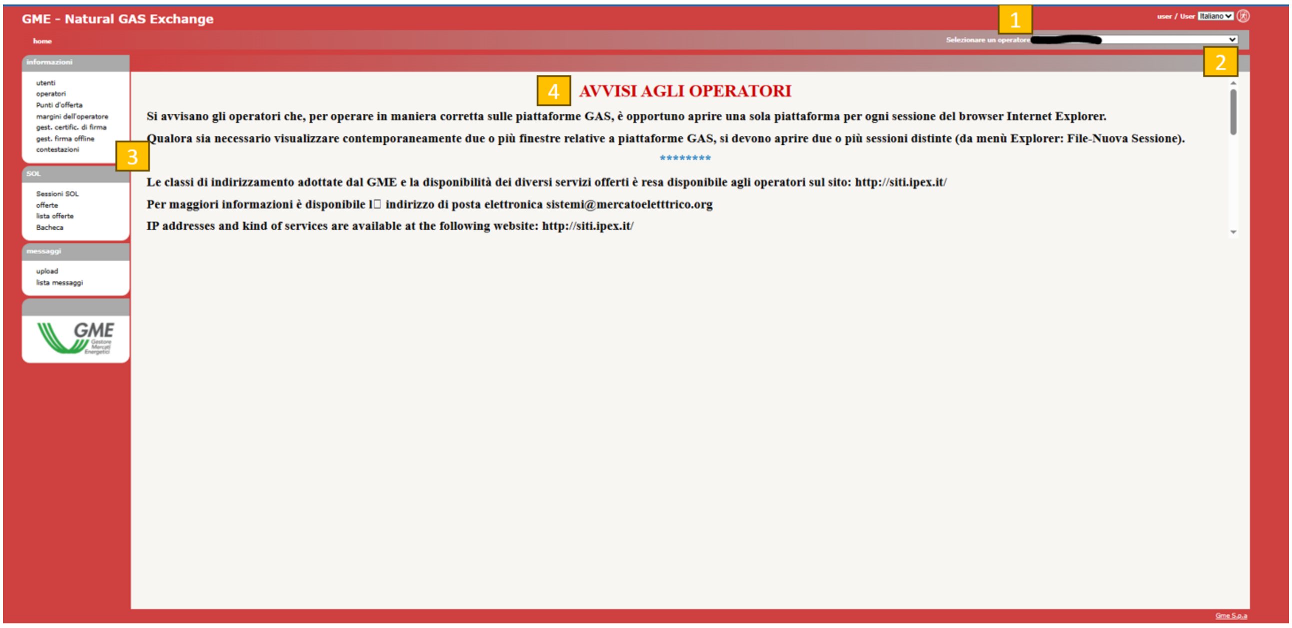


Figure 123: homepage of the portal

AUTHORISED PARTICIPANTS

Section **(2)** shows a drop-down menu with all the participants that are enabled to operate on the SOL and that are represented by the current user. The operations carried out by the user on the portal, e.g. submission of offers/bids, are associated with the participant selected on the above-mentioned menu.

MENU

Section **(3)** shows the menu with the link to all the pages that you may access. Note the **information** area, gathering all the pages with useful information for users. The **SOL** section gathers the pages for offer/bid submission, offer/bid monitoring, and market session status.

Finally, the **message** area shows 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 homepage shown in Figure 123 contains communications to participants.

FILTERS AND REPORTS

Before examining the pages of the portal, it is worth describing a feature that is common to all the pages showing reports.

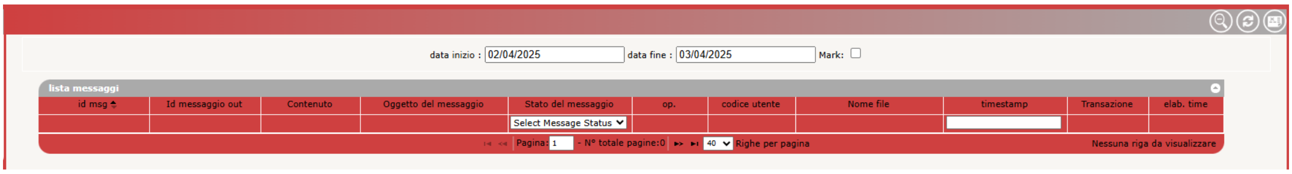


Figure 124: filters and Excel reports

Each page with reports has a filter section, which is not usually displayed upon the opening of the page. To display it, click on the icon of the group at the top right. Conversely, to hide it, click on the icon. The system will show the filter section where you may generally enter values to restrict the number of results provided in the underlying report. To reload the report, considering the appropriate filters, click on . Finally, you may export the report in Excel format by clicking on . After clicking, the page will prompt you to save the report in Excel, reporting all the results without paging them, as it happens on the web page

Some filters are shown on columns for convenience. After changing the filter, refresh is automatic.

USERS' PAGE

The users' page displays the list of users enabled to operate on behalf of a participant. This is a read-only page showing such data as user code, name and surname, telephone number, e-mail address, authentication and signature certificate of all users enabled to operate on behalf of the same participant.

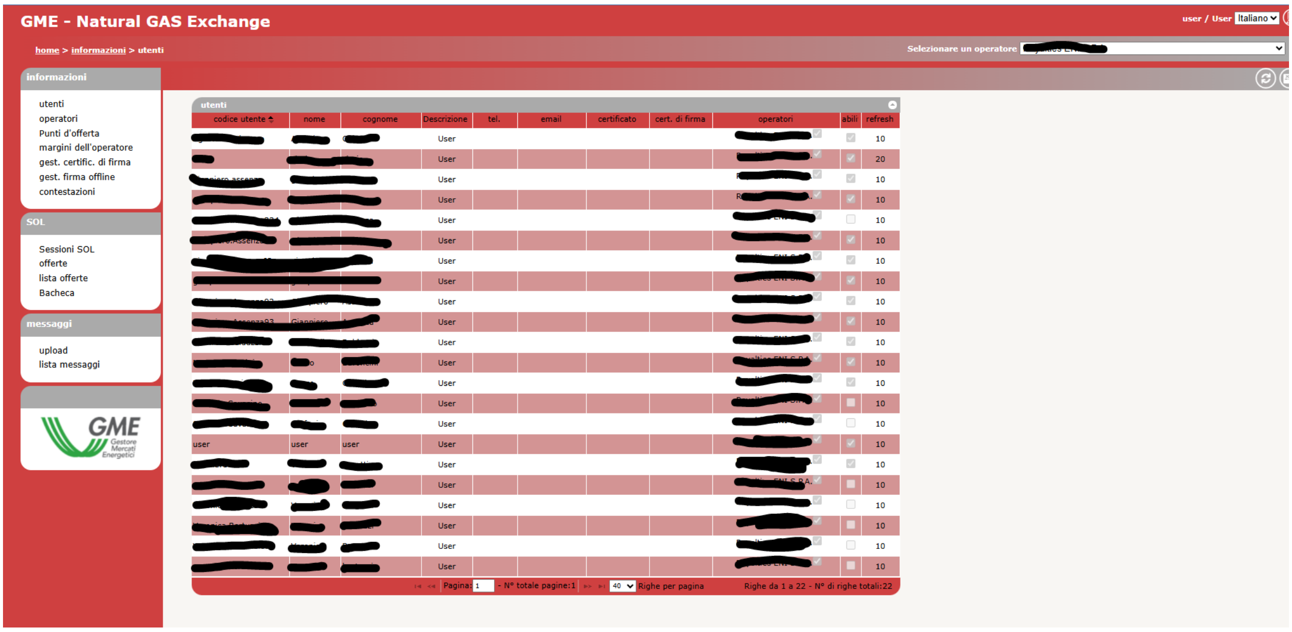


Figure 125: list of participants enabled to the platform

PARTICIPANTS' PAGE

The participants' page shows the list of participants enabled to operate on the SOL. It is a read-only page that only shows the data concerning the registered name and the code of the participant.

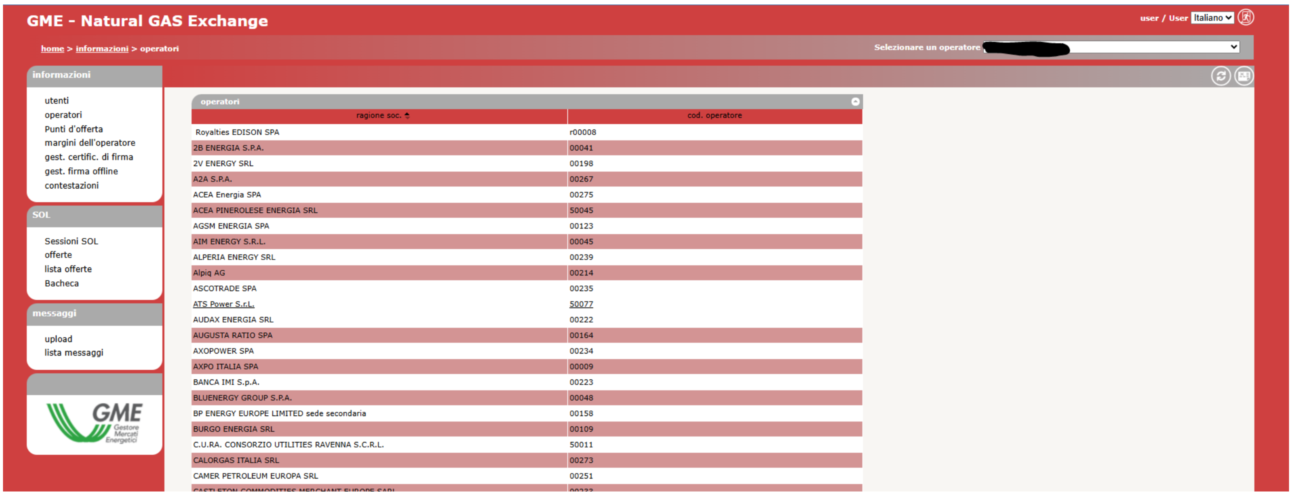


Figure 126: list of participants enabled to the platform

OFFER POINTS

The offer points page shows the offer points for which participants are enabled. For each participant selected on the drop-down menu, the system shows only the offer points for which the selected participant is enabled.

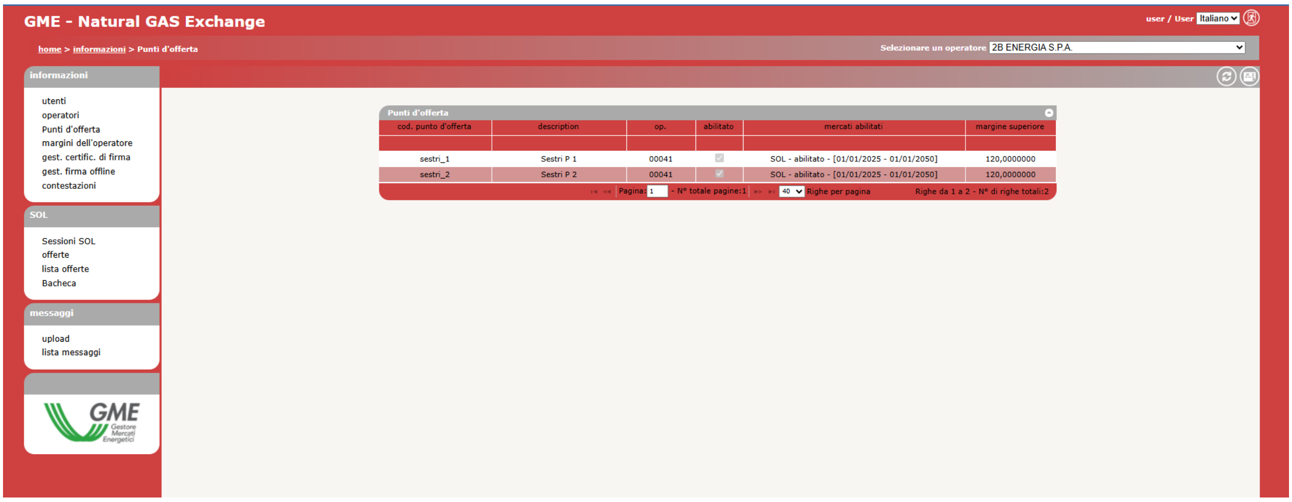


Figure 127: offer points page

The columns that are displayed are as follows: code of offer point, description, reference participant, enablement, enabled markets, upper margin.

PARTICIPANT'S MARGINS

The participant's margins report shows, for all the participants associated with the user, the **margini massimo a salire** (maximum step-up margins or upper margins, i.e. for sale). These margins are notified by SNAM Rete Gas and expressed in MWh. The timestamp column shows the day and time when the system received the information about the margins related to the offer point.

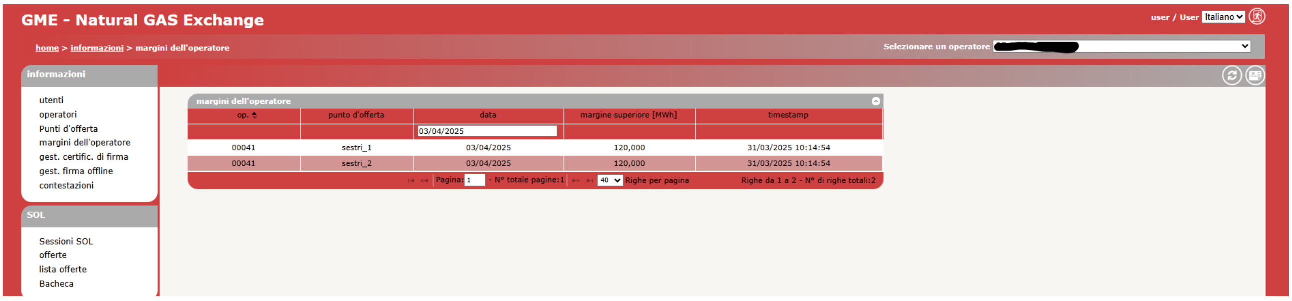


Figure 128: margins report

OFFLINE SIGNATURE MANAGEMENT

Through the offline signature management link, you access a page where you can manage your signature certificate. If you fail to have a signature certificate, the page will be as shown in Figure 129; through the link **Aggiungi** (add), you may add a certificate.

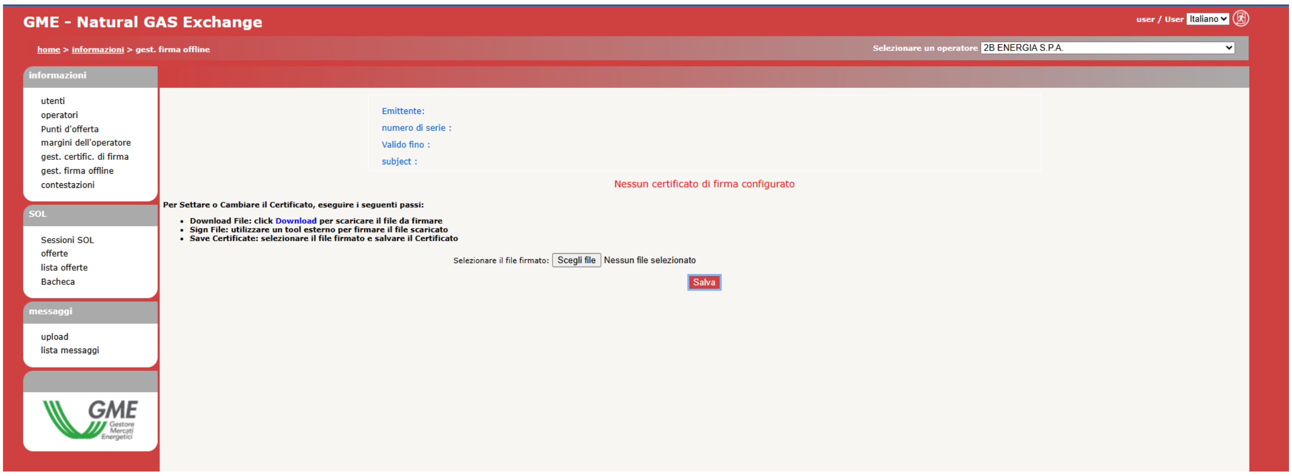


Figure 129: the user has no signature certificate; this page allows the user to add one

By clicking on the **Download** link, you may download an xml file (M-GAS_Registration_Signature) that you must sign with the signature certificate that you wish to use when signing transactions to be entered into the system; this certificate is reloaded as shown in Figure 129.

Once the certificate has been saved, its details will be displayed on the page. At this stage, you must confirm the entry of the certificate by clicking on the **Salva** (save) link.

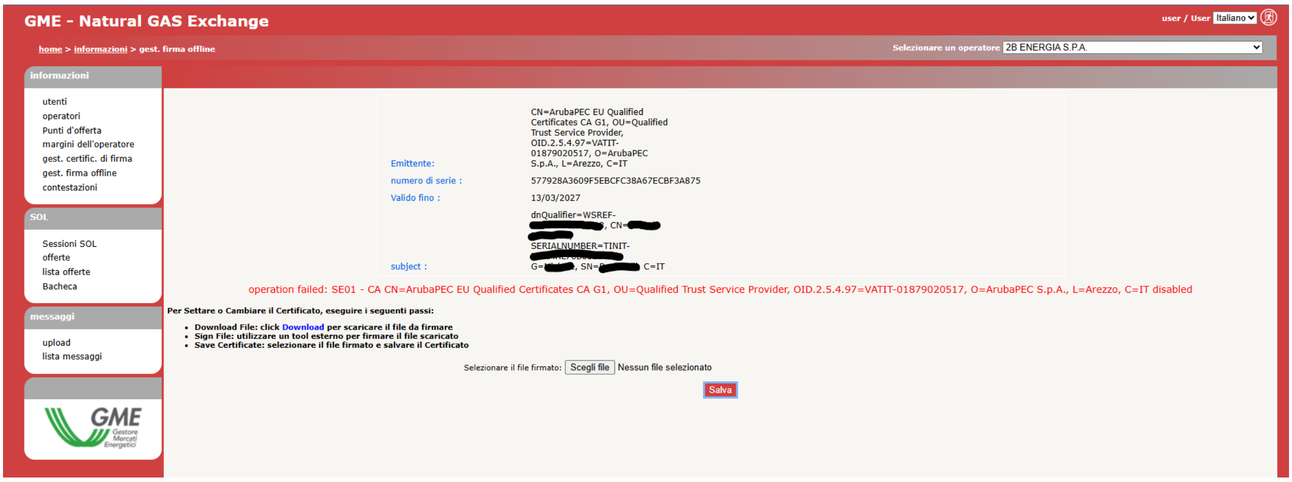


Figure 130: details of the certificate being entered

After the certificate has been entered, it must be authorised by the portal administrator before being used for transactions.

COMPLAINTS

- Figure 131 shows the complaints page, through which you may monitor the progress of complaints. Each complaint may be entered and then updated by associating it with new messages. You may view the list of all the complaints made for the participant that you represent, and in particular: title of the complaint, its status, the code of the company (participant) to which the complaint refers, the user that has made the complaint, the timestamp showing the time of entry, and then a link to the messages associated with the selected complaint.
- Option to add a new message to the already open complaint.

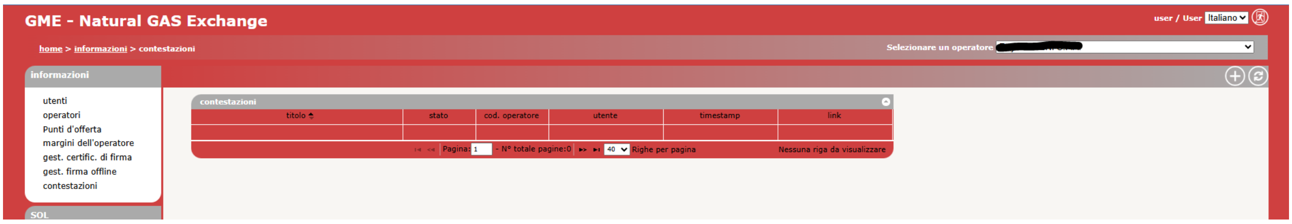


Figure 131: complaints page

By using the icon , you may thus open a window to add a complaint, as shown in Figure 132.

Figure 132: complaint entry page

MARKET SESSION PAGE

By clicking on SOL sessions, you will open a page showing, by default, the market sessions of the current day and of the three previous days (Figure 133). The data shown concerns the flow date of the session, its opening and closing dates, and its status. However, from the first cell of the "data" (date) column, you may select any past session or range of past sessions by flow date.

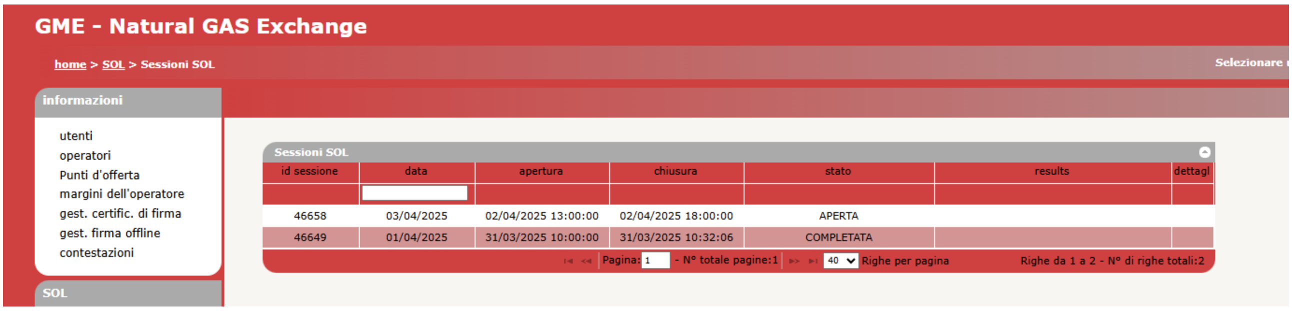


Figure 133: list of sessions

ENTRY OF OFFERS/BIDS

The offerte (offers/bids) page enables you to manage your offers/bids for a specific market session, i.e. to send, change or revoke them, or to manage predefined offers/bids that do not concern a specific session.

The page appears as shown in Figure 134.

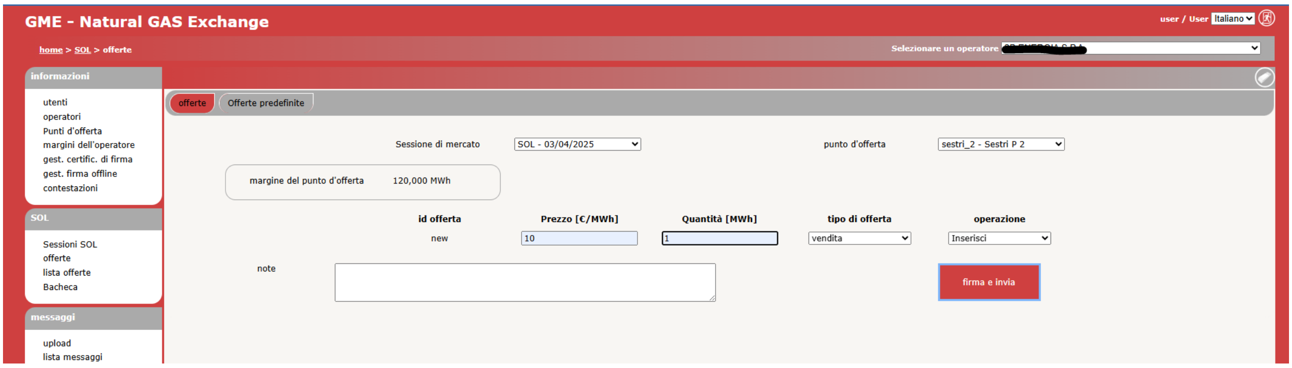


Figure 134: offer/bid entry form.

If you analyse the page, you will note, at the top, two tabs: ‘Offerte’ (offers/bids) and ‘Offerte Predefinite’ (predefined offers/bids).

The ‘Offerte’ tab is available only if an open market session is present; the flow date of the session is shown on the drop-down menu at the top, which is not modifiable; on the right, another drop-down menu shows all the offer points for which the participant is enabled to operate. After selecting an offer point, you may submit (and generally manage) a single supply offer for the selected offer point.

Only participants that have been enabled as ‘Richiedenti Solidarietà’ (solidarity-requesting participants) are authorised to enter demand bids only.

Below, you may view summary data, such as the offer point margin.

ENTRY OF ONE OR MULTIPLE OFFERS/BIDS

Figure 134 gives an example of entry of a supply offer. To enter it, you must have priorly selected an offer point and completed the fields relating to the price and volume (expressed in MWh).

By pressing “firma e invia” (sign and submit), you will move to the transaction signature stage (Figure 135). You will see all the details characterising the offer/bid and the operation that has been carried out (in this case “inserisci” - enter). Later, you will see other possible operations.

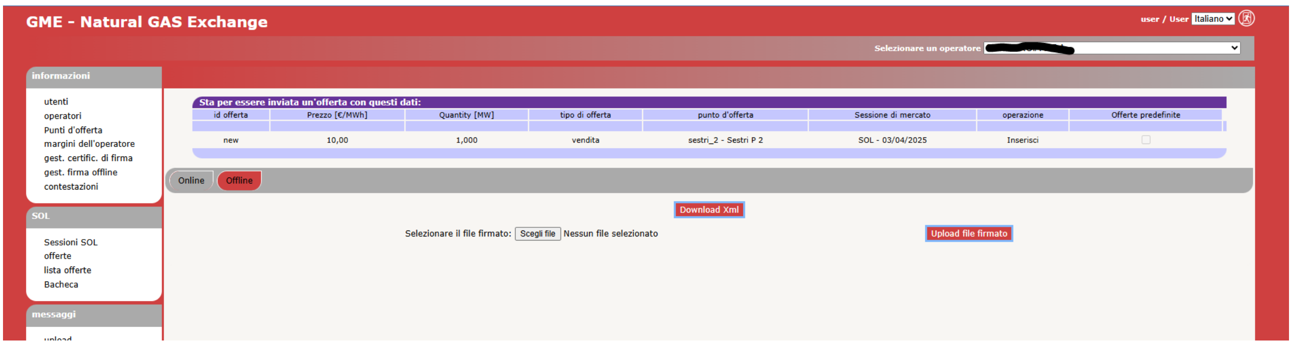


Figure 135: signature and submission of two offers/bids

To submit the offer/bid, you must select the 'Offline' tab, download the offer/bid file, sign it with the signature certificate associated with you, as a user, reload the signed file, and upload it.

After submitting transactions, you may monitor their result, by clicking on "Carica FA" (load FA), as shown in Figure 136. When the Functional Acknowledgment is available, the system will display a link allowing you to download the xml file locally. However, you may see the result of the transaction at any time, via the lista messaggi (message list) page.

Figure 136: loading the FA

Now, by reloading the page and selecting the offer point previously selected for entering the offer/bid, you will be able to view the offer/bid already submitted (Figure 137). For this offer/bid, the first field ('id offerta' – offer/bid id), contains the unique identifier characterising any offer/bid in the system.

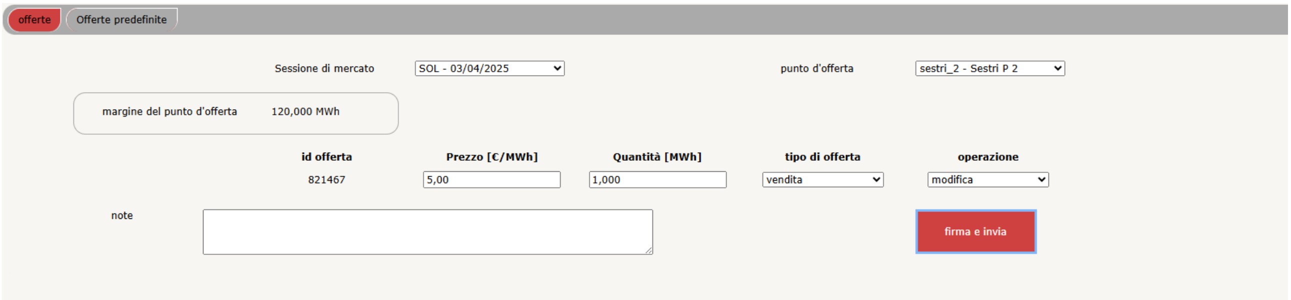


Figure 137: form to change already submitted offers/bids

CHANGING AND REVOKING OFFERS/BIDS

As shown in Figure 137, note that, for any offer/bid already submitted, you may carry out a couple of transactions through the last drop-down menu: change and revocation.

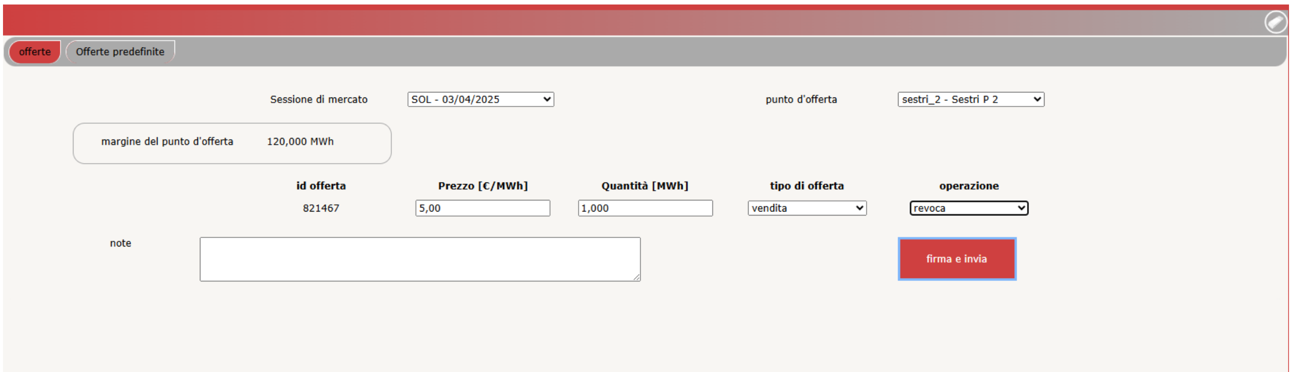


Figure 138: offer/bid revocation form

Figure 138 shows an example of offer/bid revocation.

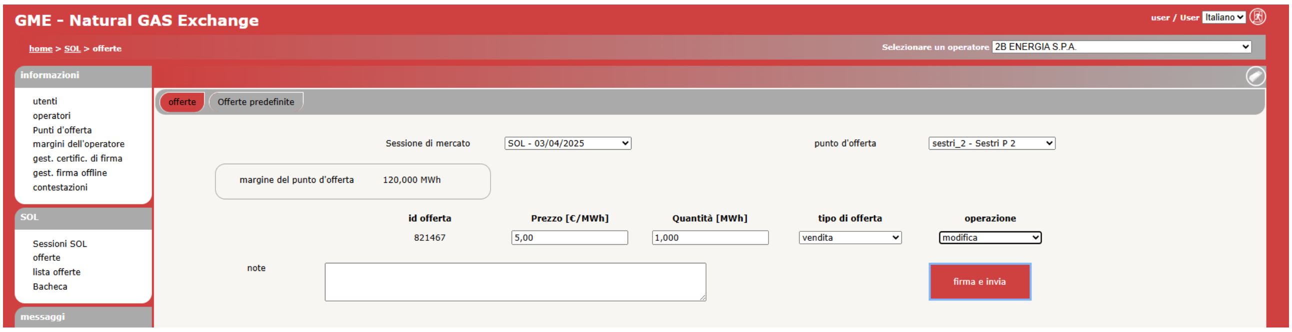


Figure 139: form to change already submitted offers/bids

Conversely, Figure 139 shows a change in the volume of the offer/bid (expressed in MWh). After changing it, you may submit the offer/bid. The summary box, to be digitally signed, shows the transaction in the offer/bid id field.

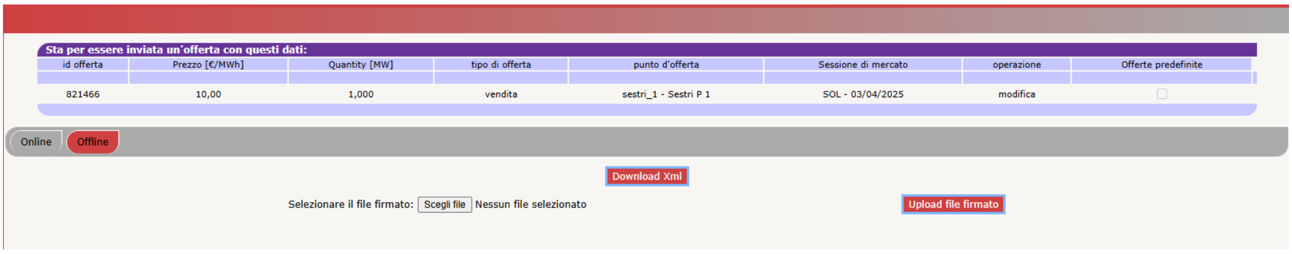


Figure 140: confirmation of a change and of a revocation

ENTRY OF PREDEFINED OFFERS/BIDS

You may submit predefined offers/bids even when no open market sessions are present.

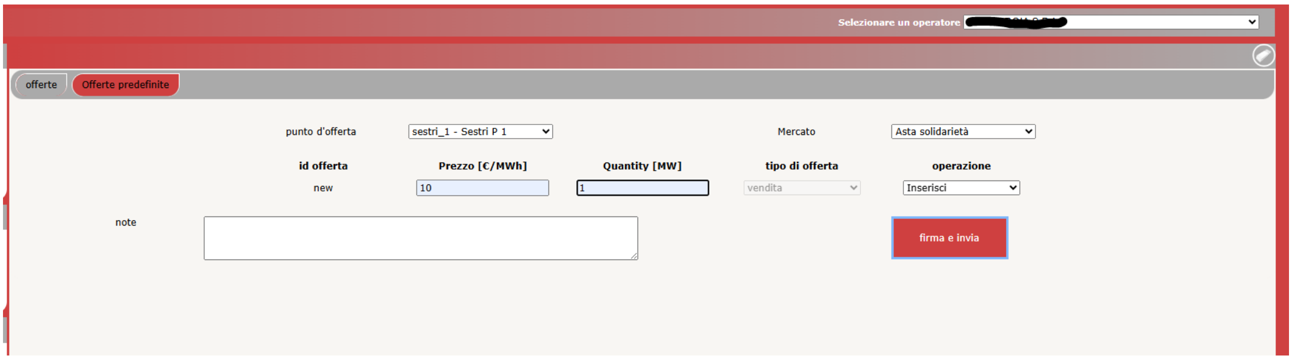


Figure 141: predefined offer/bid entry form

At the top right, a non-modifiable drop-down menu shows the 'Asta di solidarietà' (solidarity auction) market; on the left, another drop-down menu displays all the offer points for which the selected participant is enabled to operate. After selecting the offer point, you may submit (and generally manage) a single predefined supply offer for the selected offer point.

Only participants that have been enabled as 'Richiedenti Solidarietà' (solidarity-requesting participants) are authorised to send predefined demand bids only.

As shown in Figure 142, note that, for any predefined offer/bid already submitted, you may carry out a couple of transactions, through the last drop-down menu: change and revocation.

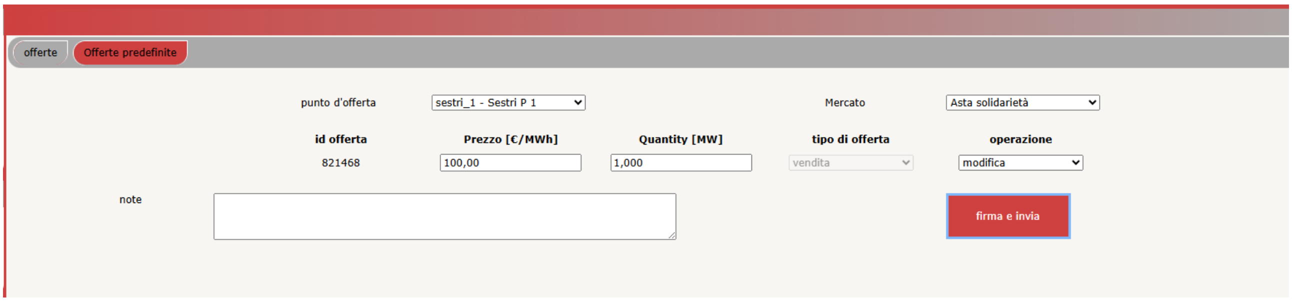


Figure 142: change of predefined offers/bids

Figure 143 gives an example of revocation of a predefined offer/bid.

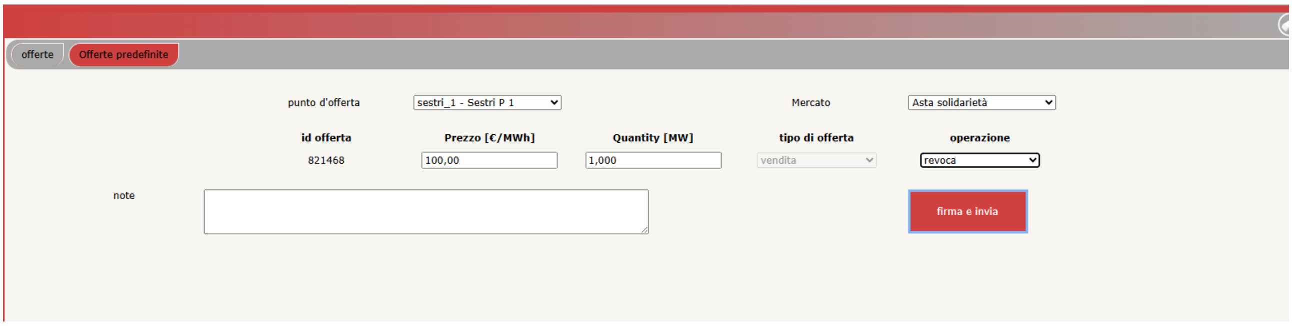


Figure 143: revocation of predefined offers/bids

Figure 142, instead, shows how to change the volume of the offer/bid (expressed in MWh) and then send the same offer/bid. The summary box, to be digitally signed, shows the transaction together with the offer/bid id.

Figure 144: confirmation of change and revocation of predefined offers/bids

OFFERS/BIDS

The lista offerte (list of offers/bids) page (Figure 145) displays the offers/bids related to the selected participant.

The upper part of the page contains the filters for: transaction, type of transaction, flow date range, and offer point.

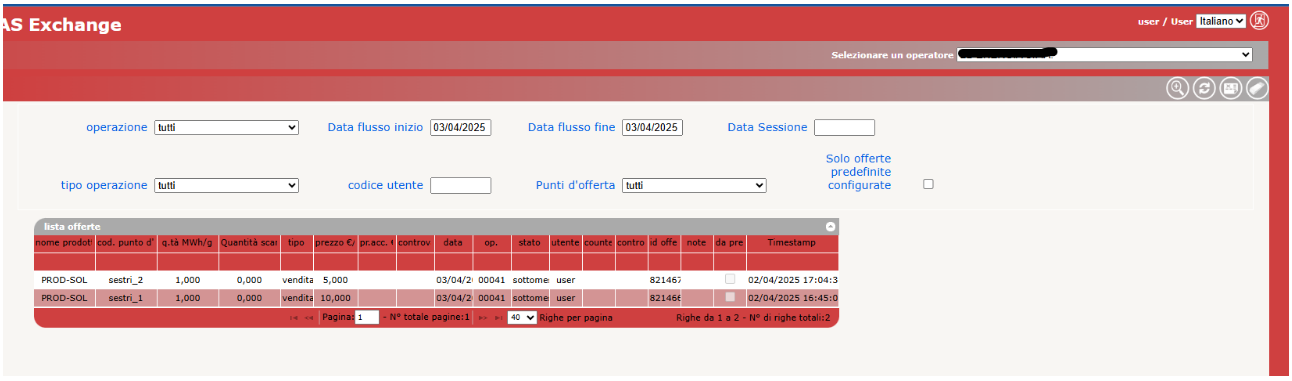


Figure 145: list of offers/bids

The system shows such details as: name of product, offer point, volume, traded volume (field populated only after market execution), type of offer/bid (supply offer or demand bid), entered price, accepted price (field populated only after market execution), value of offer/bid, flow date of session, participant, status of offer/bid, user entering it, counterparty, offer/bid id, predefined flag, any remarks, and entry timestamp.

BULLETIN BOARD

The "Bacheca" (bulletin board) page exhibits, only for solidarity-requesting participants, the list of supply offers available for the open market session.

The solidarity-requesting participant can thus make a selection by using the checkbox of the offers to be purchased.

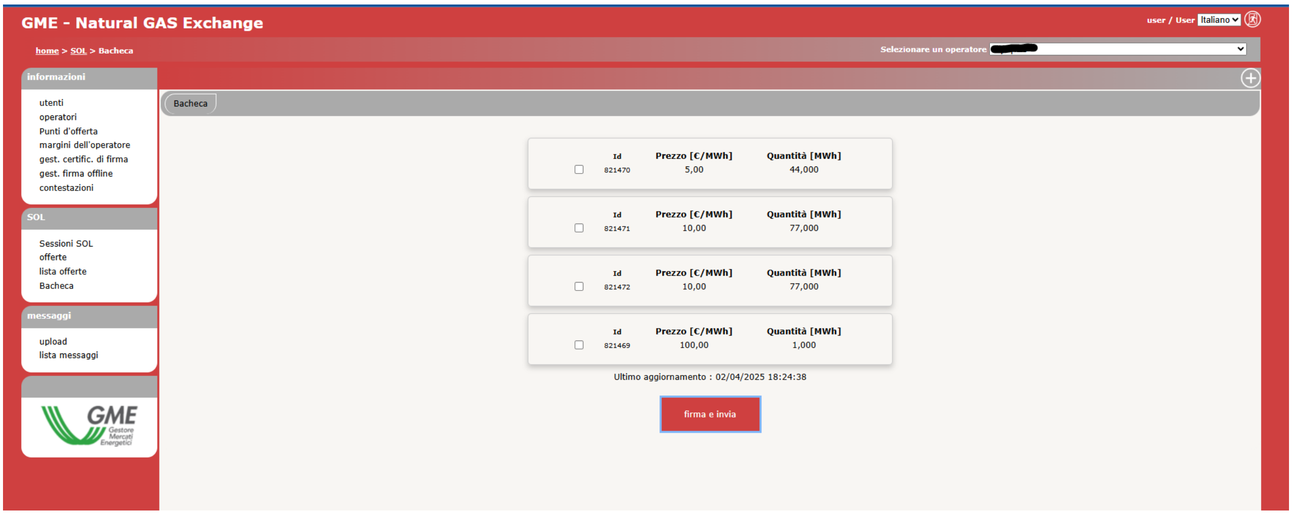


Figure 146: bulletin board

By pressing the  button, you will view a cell in the page where you may specify the maximum volume that the participant wishes to buy.

Among the offers, ranked in increasing price order, the system will select those whose sum of volumes is lower than or equal to the entered volume to be bought.

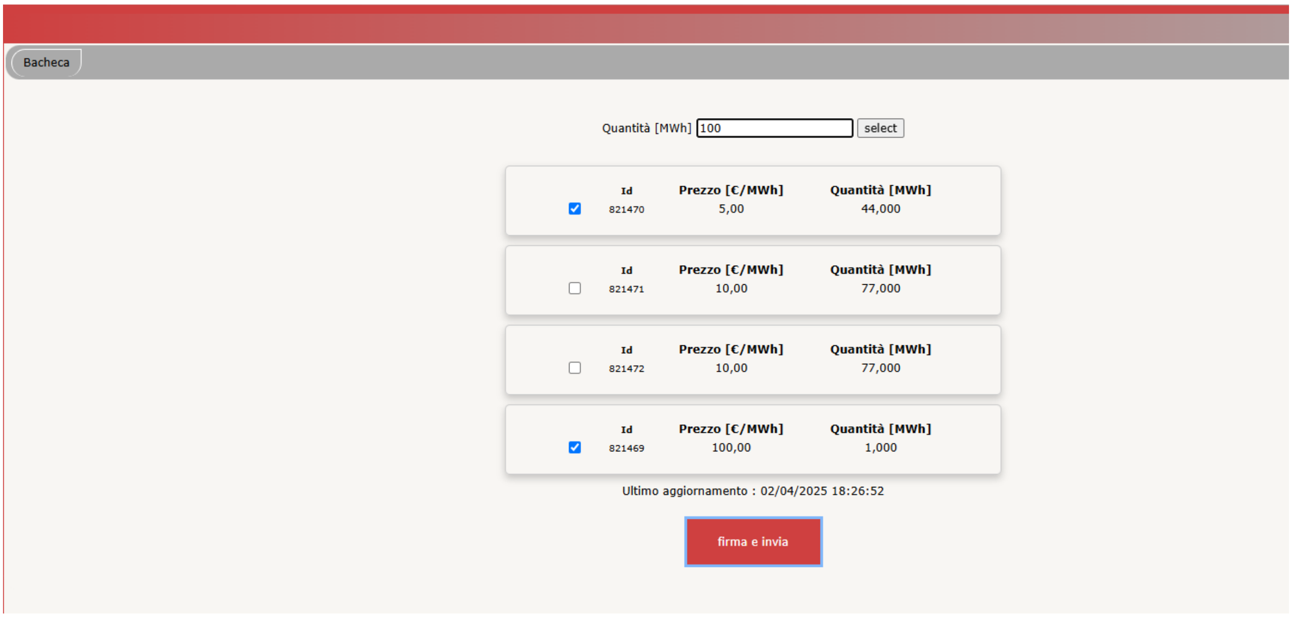


Figure 147: offer/bid capture form

By pressing the “Firma e Invia” (sign and submit) button, you may enter the signed offer/bid file.

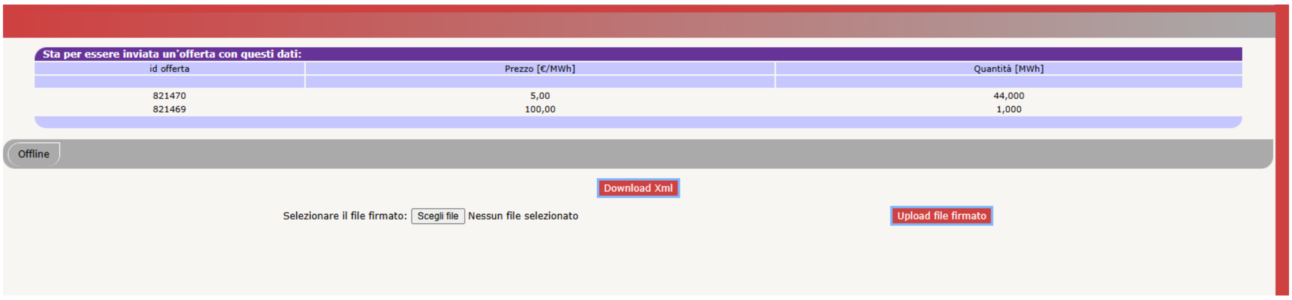


Figure 148: entry of a demand bid capturing two supply offers

If no market session is open, the page is empty.

Figure 149: unavailability of the bulletin board when the session is closed

Participants not classified as solidarity-requesting participants will not be able to view the content of this page.

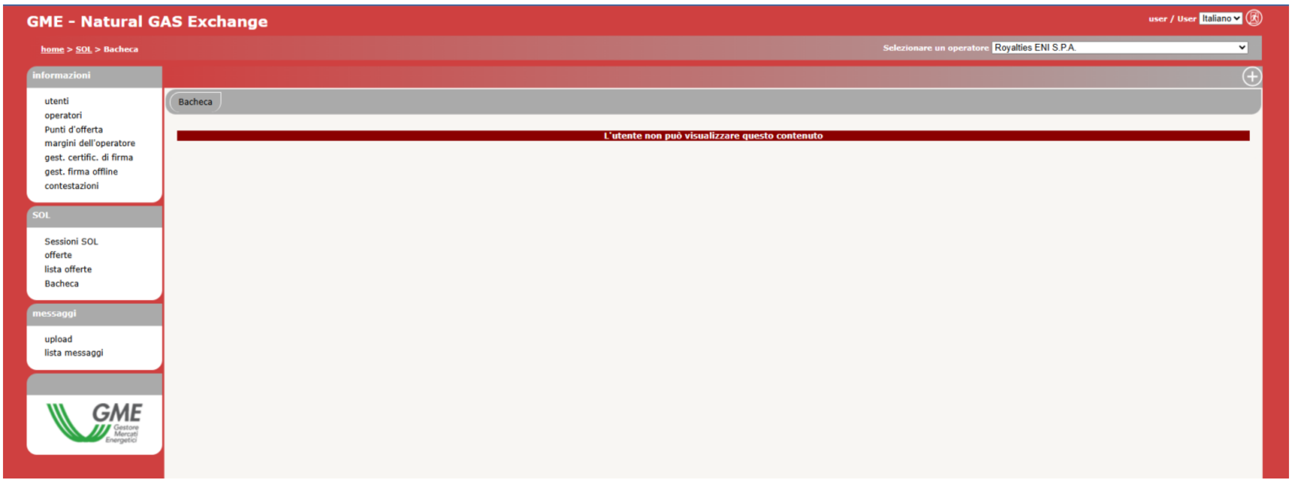


Figure 150: unavailability of the bulletin board for participants not classified as solidarity-requesting participants

UPLOAD OF XML FILES

Through the upload page, you may directly upload the xml file to enter/change offers/bids or to change the status of offers/bids (Figure 151).

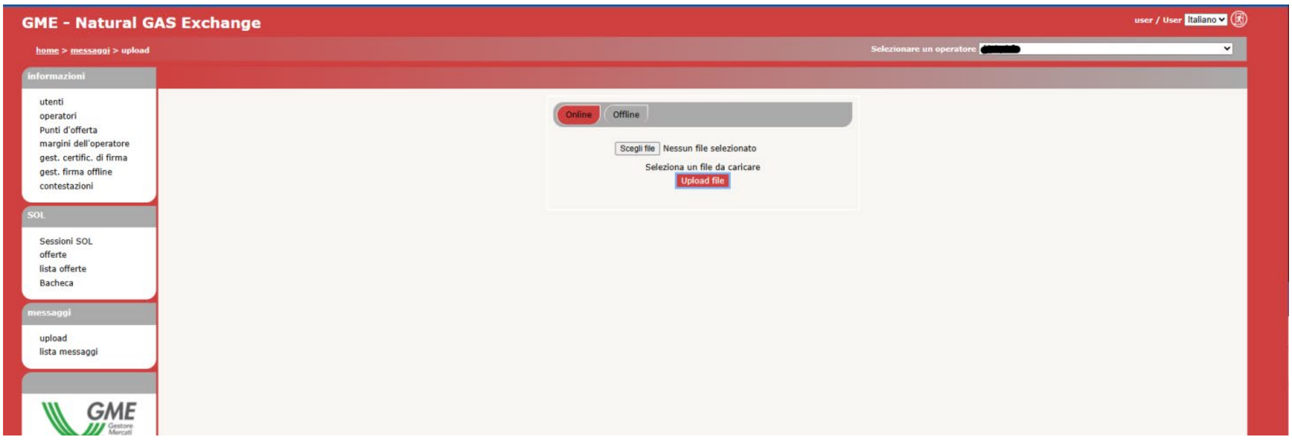


Figure 151: upload of an xml file

You must prepare the xml file with an appropriate editor and then carry out the upload by selecting the file, signing its content, and then entering the transaction.

You may sign the file online, through Internet Explorer, or offline, i.e. you may upload an already signed file.

LIST OF MESSAGGES

Each action made by the user in the MPL system through the above-described web pages will result in an xml file, which will be stored in the database and subsequently processed by the platform. Each action stored in the system generates a result (called **Functional Acknowledgment**, **FA**), i.e. another xml file, whatever the result of the action made.

The list of xml transactions submitted, and the related result are displayed in the lista messaggi (list of messages).

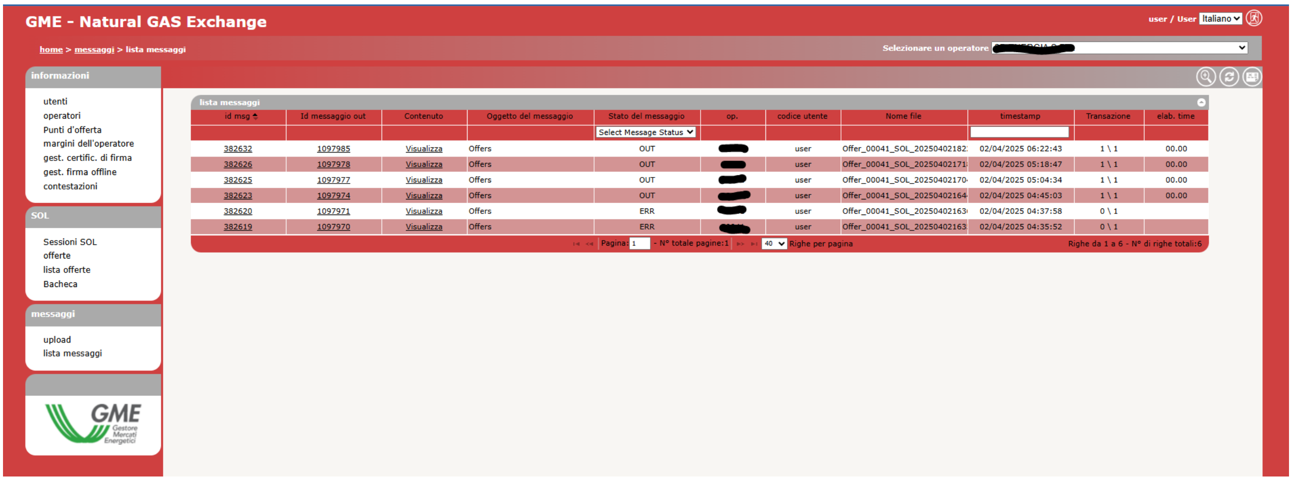


Figure 152: list of messages

The page is organised as follows: the first column shows the unique id assigned to the t xml input message, produced through the interaction of the user with the portal pages. By clicking on the number representing the id, you may download the xml file giving evidence of all the input parameters generating the transaction.

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

Then, you will see the subject of the message and, above all, its status. The latter may be as follows:

- **IN**: message submitted and stored, but not yet processed.
- **ERR**: message incorrectly composed or with incorrect content.
- **RUN**: message being processed.
- **OUT**: message processed (with unsuccessful or successful outcome).

The remaining columns display such data as: participant and user entering the transaction, name of the xml file, date and time of entry, number of transactions successfully processed, and processing time, in minutes and seconds.

The page filters include a checkbox, called **mark** (Figure 153). If you select it, the system will mark the outcome file as downloaded. This action will have an impact on the download of the file via the web service because the system will neglect the already downloaded files, returning only those that have not yet been examined by the user. If, from the interface, you download an xml file, with the **mark** checkbox selected, the download of the same file via the web service will fail.

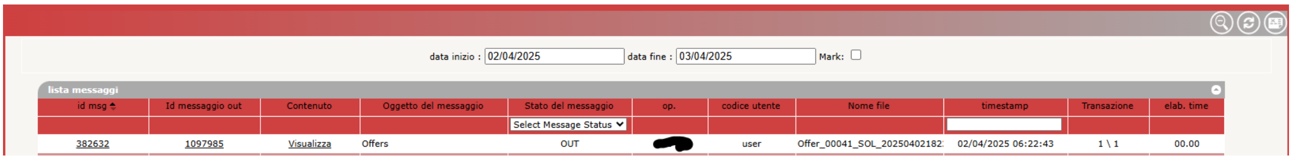


Figure 153: filters of the list of messages