

NSenergy 3.0

User guide

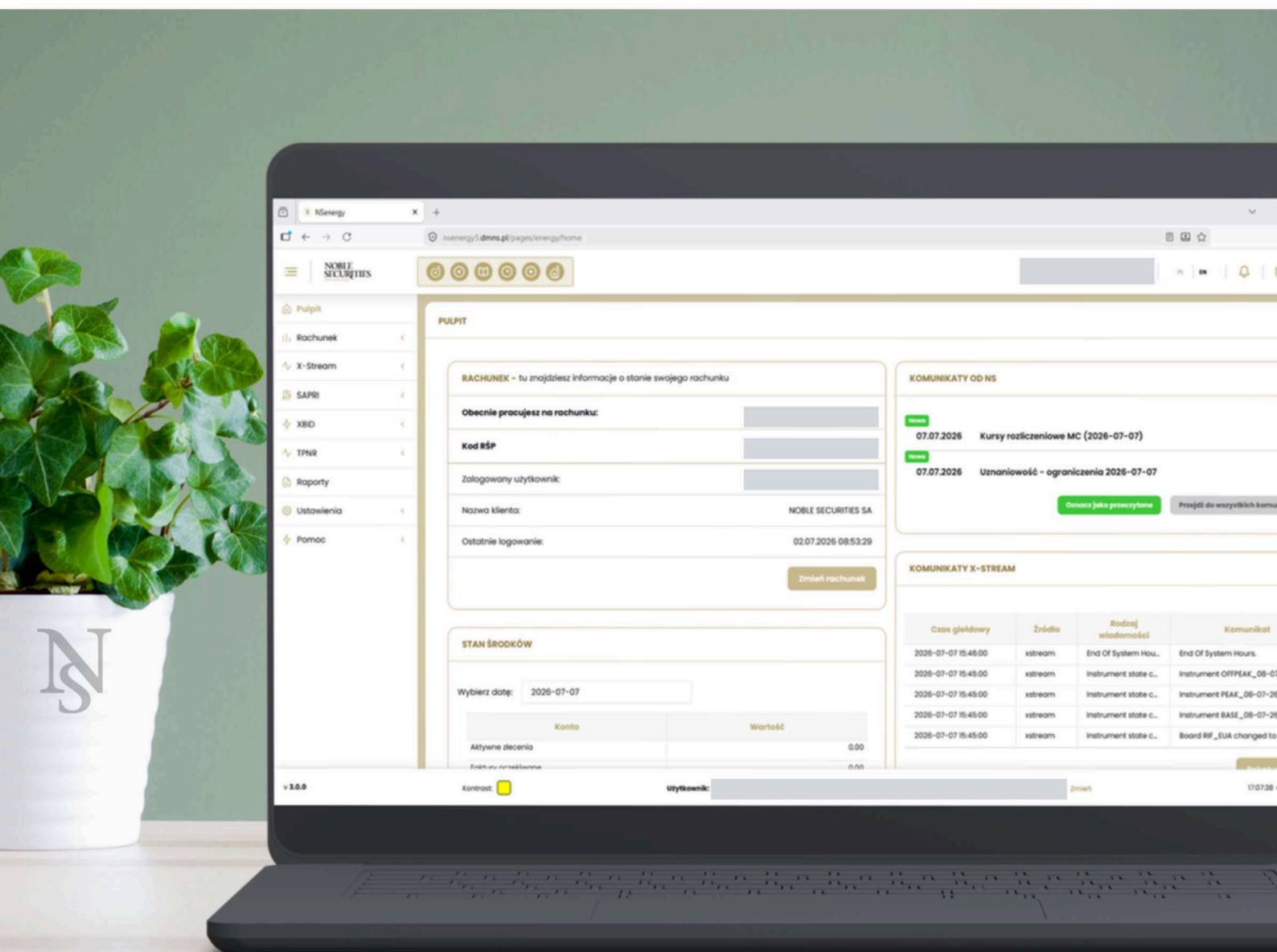


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1. General Information

NSenergy is a web-based application designed for clients of Noble Securities S.A. who hold accounts used for trading in Instruments such as commodities and energy products. The Application allows Users to check their current cash balance and view their open positions in Instruments. Users may also use the Application to place orders on the Polish Power Exchange (Towarowa Giełda Energii S.A.) and submit instructions to transfer funds from their account to the bank account specified in the Agreement.

The Application is intended for use on desktop and laptop computers, as well as mobile devices. Google Chrome is the recommended browser for NSenergy. However, the Application may also be used with other leading web browsers, including Mozilla Firefox, Opera and Microsoft Edge.

Abbreviations and definitions

Application or NSenergy – the NSenergy 3.0 application and any subsequent versions.

Exchange or TGE – Towarowa Giełda Energii S.A. (the Polish Power Exchange).

Client – a natural person engaged in business activity, a legal person or an organisational unit without legal personality that has concluded an Agreement with the Brokerage House under which Noble Securities S.A. provides services on the markets operated by Towarowa Giełda Energii S.A.

NS – Noble Securities S.A., with its registered office in Warsaw.

Agreement – an agreement for the provision by Noble Securities S.A. of services on the Exchange Commodities Market and the Energy Products Derivatives Markets operated by Towarowa Giełda Energii S.A., or an agreement for the provision by Noble Securities S.A. of services on the markets operated by Towarowa Giełda Energii S.A.

User – an individual who has access to the Application under a power of attorney granted by the Client.

PCR – Price Coupling of Regions, a market-coupling mechanism used to determine a common market-clearing price across interconnected regions of Europe.

RŚP – Register of Certificates of Origin.

SAPRI – the SAPRI TRADE application developed by NASDAQ OMX for electricity trading under the PCR model on the Day-Ahead Market operated by TGE.

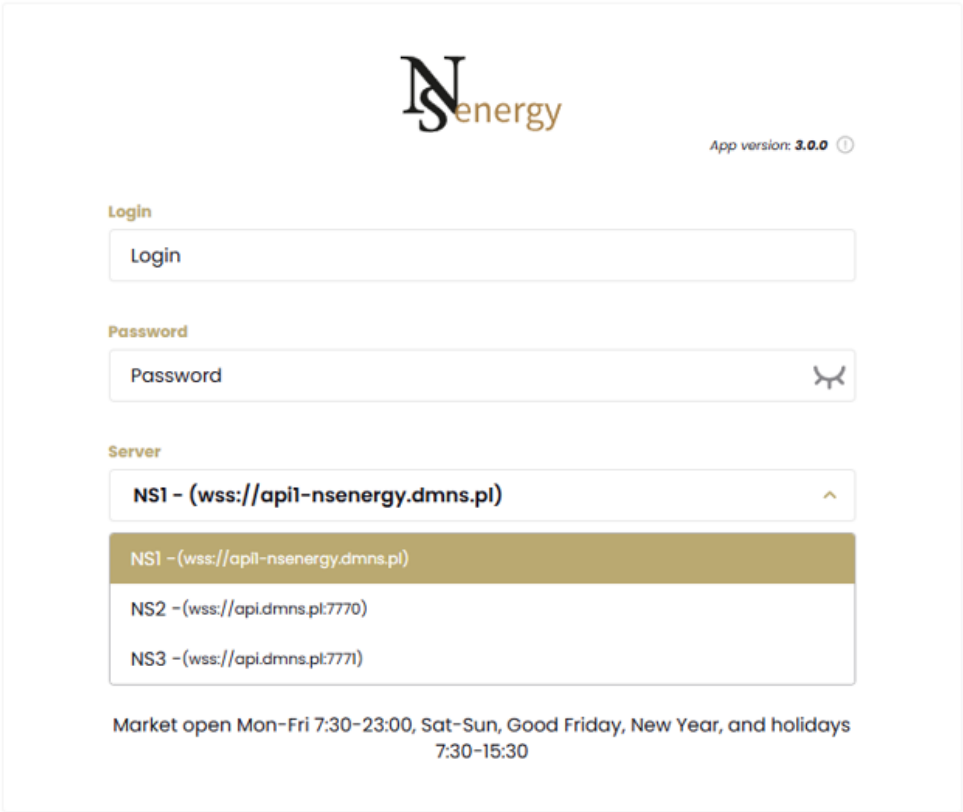
XBID – Cross-Border Intraday Market, a European initiative designed to integrate intraday electricity markets across the European Union.

Local Orders – orders entered into the NS system but not yet submitted to the exchange. In other words, these are orders prepared beforehand by the User and held until the User decides to activate and submit them to the exchange system.

TPNR – an uncleared off-session transaction; an off-session transaction settled in cash outside the Exchange.

2. Logging in

To log in to NSenergy, enter <https://nsenergy.dmns.pl> in your browser's address bar. You can also go to <https://noblesecurities.pl/>, click "Log in" in the top-right corner of the page and then select "NSenergy".



The screenshot shows the NSenergy login page. At the top center is the NSenergy logo. To the right of the logo, it says "App version: 3.0.0" with an information icon. Below the logo, there are three main sections: "Login", "Password", and "Server". The "Login" section has a text input field with the placeholder "Login". The "Password" section has a text input field with the placeholder "Password" and a toggle icon for password visibility. The "Server" section has a dropdown menu currently showing "NS1 - (wss://api1-nsenergy.dmns.pl)". Below the dropdown, there is a list of three server options: "NS1 - (wss://api1-nsenergy.dmns.pl)", "NS2 - (wss://api.dmns.pl:7770)", and "NS3 - (wss://api.dmns.pl:7771)". At the bottom of the page, there is a line of text: "Market open Mon-Fri 7:30-23:00, Sat-Sun, Good Friday, New Year, and holidays 7:30-15:30".

2.1. Logging in for the first time

The **one-time password for your first login** is provided in the Agreement or the Power of Attorney for the account. If it is not included in either document, the system administrator will assign one.

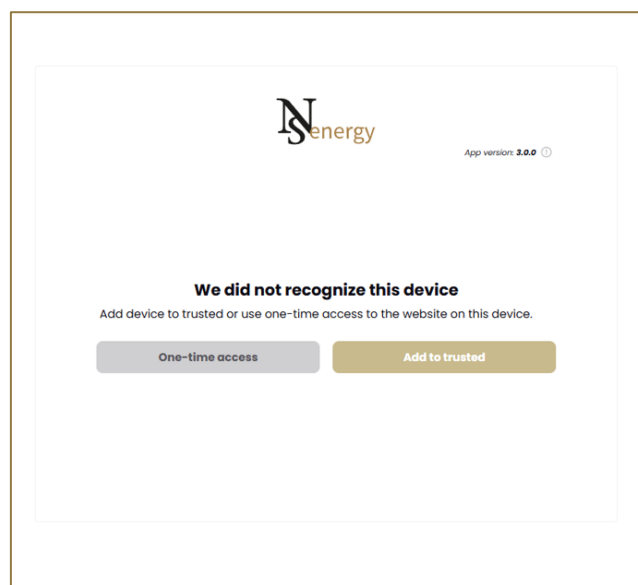
Important! For security reasons, passwords should contain a combination of uppercase and lowercase letters, numbers and special characters. Passwords must be at least 8 characters long.

In the login form, enter your **login** and **password**. Then confirm the details by clicking **Log in**.

You can choose between two servers: NS(1) and NS(2). NS(1) is selected by default. However, you may use NS(2), for example if you experience connection problems. The server you use has no effect on how the Application works or on your ability to place orders.

When you click **Log in**, the system checks whether the login and password you have entered are correct. When logging in from a device for the first time, you will be asked to add it as a trusted device. After clicking “Add as trusted”, you will be asked to give the device a name. The Client may choose any name. You will then receive a one-time authentication code by email or SMS, depending on the option selected. This is only possible if your email address or mobile phone number has been provided in the power of attorney. The next time you log in from the same device using the same browser, you will not be asked to enter a one-time code.

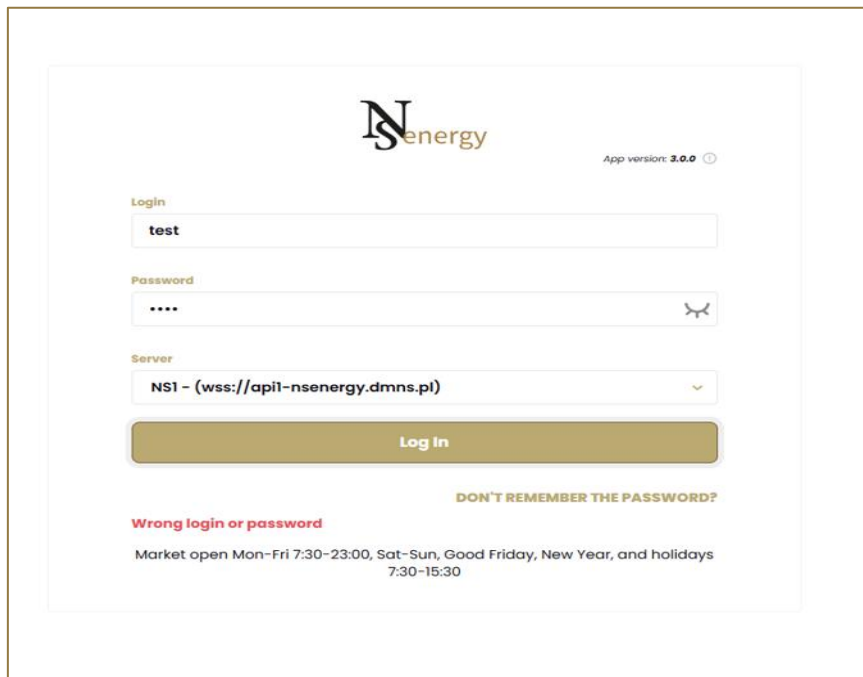
If you select “One-time access”, you will receive a one-time code by email or SMS, but the device will not be saved as a trusted device.



For more information about two-step verification, see section 10.4 of this manual.

If your login details are correct, you will be logged in and redirected to the Application's home screen. If the details are incorrect, a message will appear informing you that the login details are invalid.

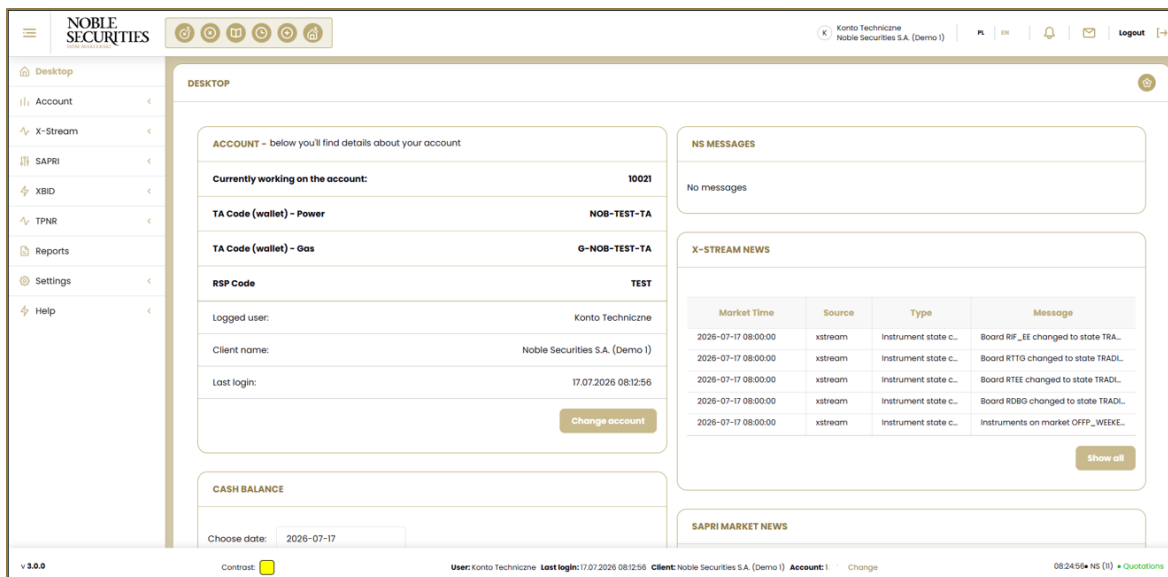
If you enter an incorrect password several times, your account will be locked. To have your account unlocked, please contact the brokerage office at +48 22 213 22 58.



3. Application screens and features

3.1. Home Page

After logging in, you will be redirected to the Application's home screen, from which you can access its other screens.



The home page provides information on:

- the account that is currently active,
- the available balance as at a selected date,
- the latest messages from the exchange system,
- messages from NS,
- contact details for the NS office,
- the bank account number for deposits.

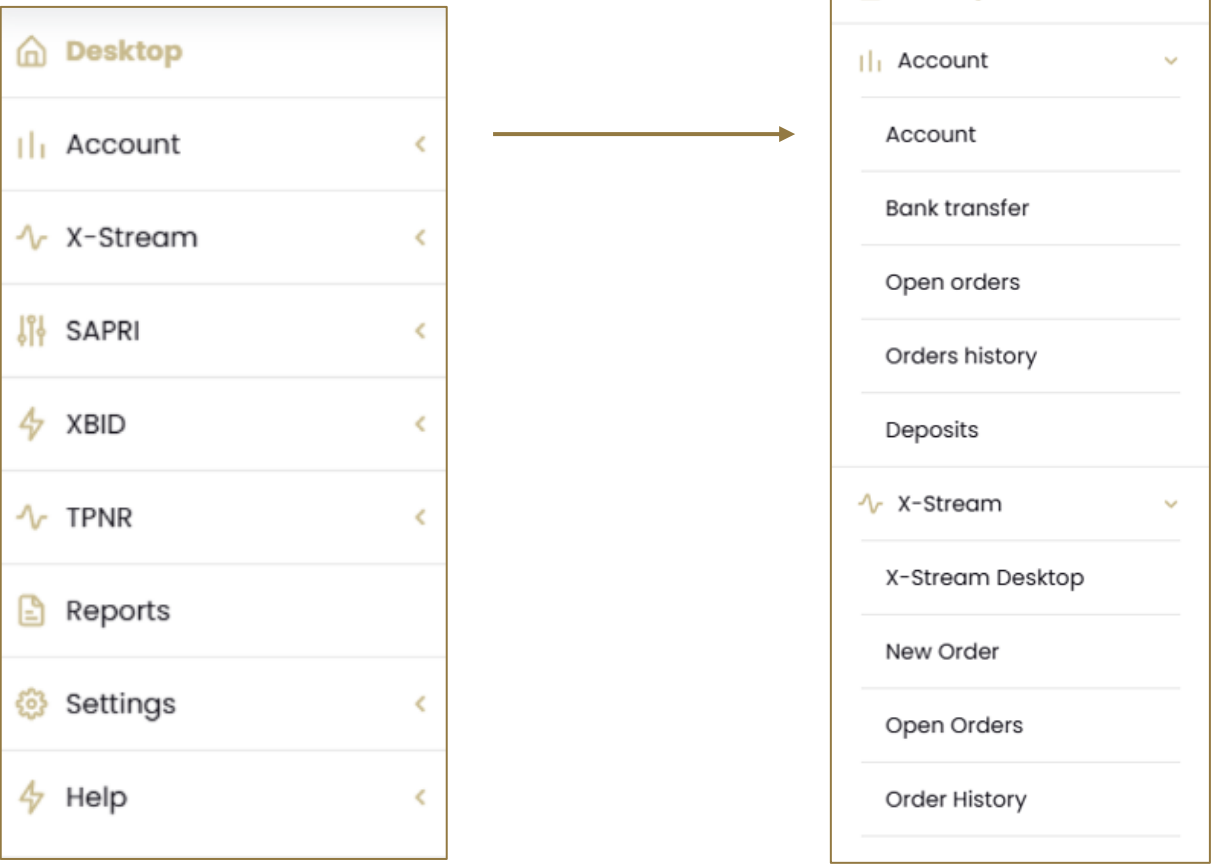
Click Configure in the top-right corner of the page to choose which components are displayed on your home page.



The navigation bar on the left-hand side of the Application's home screen allows you to access its individual sections. Click a section heading in the menu to expand the relevant category and go to the selected Application screen. This will display more detailed information on the selected topic.

To return to the home page, click the Noble Securities logo in the top-left corner of the screen.

Descriptions of the icons available in the Application are displayed when you hover over them or click the arrow to expand them.

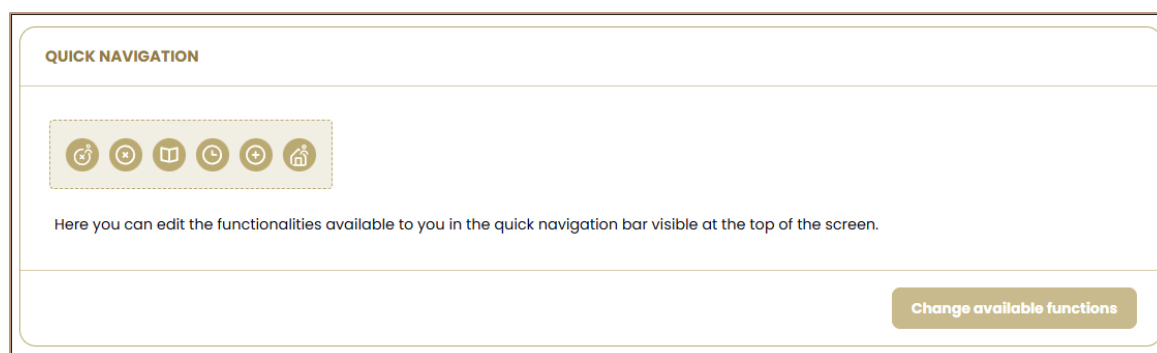


3.2. Quick navigation bar



The bar displayed at the top of the browser window contains icons that let you move quickly between selected screens and perform certain actions, such as cancelling all your orders or placing a new order.

You can customise the toolbar by adding or removing icons and changing the order in which they appear. To customise the sidebar, go to **Settings** ➔ **Application settings**.



3.3. Notifications and messages

A number of icons are displayed in the top-right corner of the page.



You can use them to:

- switch to a different account,
- change the Application language,
- view Application notifications,
- view messages from NS,
- log out of the Application.

3.4. Bottom bar

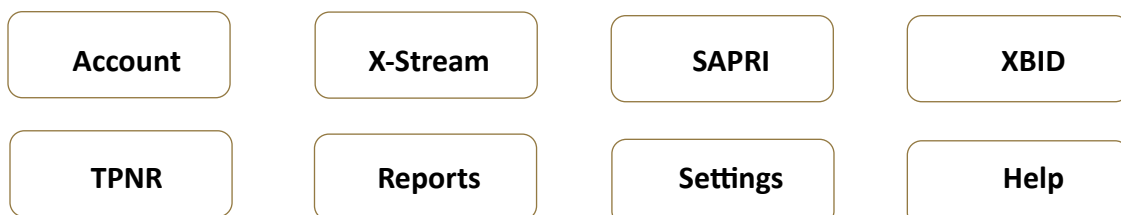
The bar at the very bottom of the browser window displays information about the User and the Client, as well as the number of the active account. It also contains a clock and status indicators showing whether the Application is connected to the internal NS application, the exchange server and the server providing exchange quotations.

You can also use the bottom bar to switch to high-contrast mode or open the account selection window by clicking Change.



3.5. Menu bar

The **menu** is the Application's main navigation tool and allows you to switch between its different screens. It is divided into eight main sections:



Important!

The sections shown and the options available within each section may vary depending on your access rights.

Desktop	
Account	<
X-Stream	<
SAPRI	<
XBID	<
TPNR	<
Reports	
Settings	<
Help	<

4. Account

4.1. Account

ACCOUNT

ACCOUNT - below you'll find details about your account

Currently working on the account: 1

TA Code (wallet) - Power NOB-TEST-TA

TA Code (wallet) - Gas G-NOB-TEST-TA

RSP Code TEST

Logged user: Konto Techniczne

Client name: Noble Securities S.A. (Demo 1)

Last login: 16.07.2026 09:07:41

Change account

DEPOSITS

Account	Value
Required margin deposit	25 313 557.64
Required cash collateral	25 313 557.64
Total guarantees class 1	0.00
Guarantee factor class 1	1.00
Recognized guarantees class 1	0.00
Total guarantees class 2	0.00
Guarantee factor class 2	1.00
Recognized guarantees class 2	0.00
Total value of contributed PMOZE	0.00
Recognition factor PMOZE_A	1.00
Recognized PMOZE_A	0.00

CASH BALANCE

Choose date: 2026-07-16

OPEN POSITIONS

v 3.0.0 Contrast: [] User: Konto Techniczne Last login: 16.07.2026 09:07:41 Client: Noble Securities S.A. (Demo 1) Account: 1 Change 11:18:18 • NS (1) • Quotations

In addition to the information available on the Application's home screen, the **Account** screen shows the cash balance, the Client's open positions and the amount of margin held in the account.

You can also use this screen to **switch to another account** to which you have access.

Select account

- 1 Noble Securities S.A. (Demo 1)
- 2 Noble Securities S.A. (Demo 2)
- 1 Noble Securities S.A. (Demo 1)

Cancel Confirm

4.2. Bank transfer instruction

If you are authorised to transfer funds from the Client's account to a bank account specified in the Agreement, the following option will be available in the menu: **Account → Bank transfer instruction**

The Bank transfer instruction screen shows the transfer history for the active account and the current account balance. It also contains a form for submitting a transfer instruction. You can also cancel a transfer instruction that has been submitted but not yet processed.

BANK TRANSFER REQUEST

CASH BALANCE

Choose date: 2026-07-16

Account	Value
Active orders	4 094.22
Invoices expected	3 288 188.75
K.BPRZ	0.00
URE obligations (color cert.)	0.00
K.BSEFE	0.00
Executed orders (unsettled)	39 109.19
Collateral margins (initial and variation)	26 313 557.64
Cash account	5 163 816.83

BANK TRANSFER REQUEST

Available funds: 5 163 816.82 PLN

Bank account number:

Transfer type: ☐ Standard ELIXIR ☐ Fast SORBNET ☐ International

Fee: 0.00 PLN

Transfer amount: 0.00 PLN

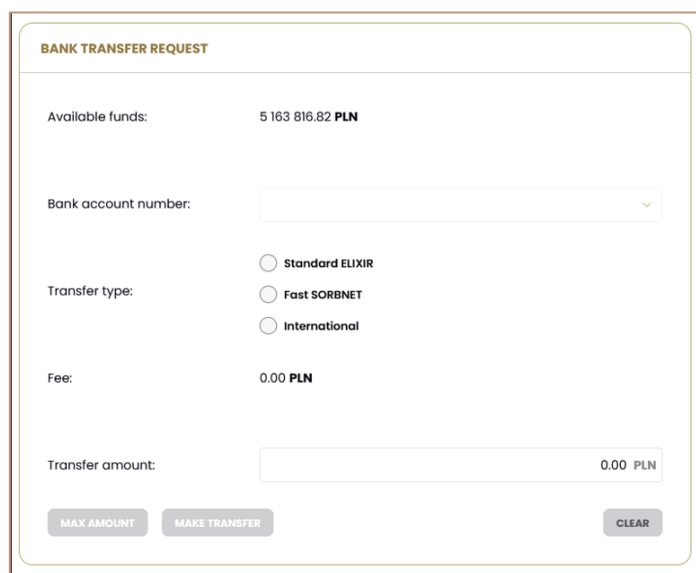
MAX AMOUNT MAKE TRANSFER CLEAR

The **Maximum amount** button calculates the highest amount that can currently be withdrawn in a single transfer and enters it in the form.

You can select the type of transfer. Once you select a transfer type, the fee charged when the transfer is processed will be displayed.

To make a transfer:

- select a bank account number from the list of accounts specified by the Client in the Agreement,
- enter the amount to be transferred in the **Amount to withdraw** field. This amount must not exceed the balance available in the **Cash** account, less the transfer fee. You can use the **Maximum amount** button to calculate the available amount,
- select the type of transfer,
- click **Submit transfer instruction**.



The image shows a 'BANK TRANSFER REQUEST' form. At the top, it displays 'Available funds: 5 163 816.82 PLN'. Below this is a dropdown menu for 'Bank account number:'. The 'Transfer type:' section has three radio button options: 'Standard ELIXIR', 'Fast SORBNET', and 'International'. The 'Fee:' is shown as '0.00 PLN'. At the bottom, there is a 'Transfer amount:' input field with '0.00 PLN' on the right. Three buttons are at the bottom: 'MAX AMOUNT', 'MAKE TRANSFER', and 'CLEAR'.

If the instruction has been submitted successfully, it will appear in the table below the Bank transfer instruction window.

Transfers history	  
-------------------	---

Important!

The Bank transfer instruction screen is available only to Users who have been authorised by the Client to make bank transfers independently.

4.3. Open orders

The **Open orders** screen allows you to view all orders you have placed that are still open. Right-click an order status to view the order history, including information about its execution or cancellation, or the reason why it was rejected. You can also amend an order that has not yet been executed.

Order ID	Date	Instrument code	Status	Quantity	Price	B/S	Validity	Netto	Gross	Venue	Exec. Type	Qty Exec.	Net. Exec.	Ammissi	MWh	Date from	Date to
489213	2026-07-16 13:45:0	BASE_M-10-26	Local order	1	40.00	Buy	Until the end of	29 800.00	30 276.50	session/m...	Normal	0	0	476.50	745	2026-07-16	2026-07-16

Minimal price: 40.00, Maximal price: 40.00, Average price per MWh: 40.00, Quantity: 1

The screen includes the following buttons: Filters, Configure, Export to Excel and Open in new window.



4.4. Cancelling orders

4.4.1. Cancelling selected orders

To cancel selected orders, go to the **Open orders** screen.

Each row contains a checkbox for selecting the relevant order. Once you have selected at least one order, the “**Cancel selected**” button will become active. Click it to cancel the selected orders.

OPEN ORDERS

Cancel selected Send selected

	Order ID	Date	Instrument code	Status	Quantity	Price	B/S	Validity	Netto	Gross	Venue	Exec. Type	Qty Exec.	Net. exec.	Commission	MWh
☒	4892115	2026-07-16 11:24:28	BASE_Y-30	Local order	1	1 000.00	Buy	Until the end ...	8 760 000.00	8 765 602.90	session/m...	Normal	0	0	5 602.90	8 760
☒	4892114	2026-07-16 11:23:50	RDN_17-07-26_1H8	Local order	5	23.00	Buy	Until the end ...	115.00	118.94	session/m...	Normal	0	0	3.94	1
☒	4892113	2026-07-16 11:14:50	BASE_M-10-25	Local order	1	40.00	Buy	Until the end ...	29 800.00	30 276.50	session/m...	Normal	0	0	476.50	745

10 Items per page, 1-3 of 3 items

4.4.2. Cancelling all orders placed by you on the active account

The quick navigation bar includes the “**Cancel all my orders**” button . Clicking this button and then confirming the action sends a cancellation request to the server. The request applies to all orders placed by you on the currently active account.

4.4.3. Cancelling all orders on the active account

The Application also allows you to cancel all active orders placed on the current account, regardless of which User placed them. This action will therefore remove all of the Client’s orders from the market.

To cancel all orders for the account, except for auction orders placed in SAPRI, click the  “**Cancel all orders on the current account**” button.

4.5. Order history

You can view the Client’s complete order history on the **Order history** screen. As on the other order screens, you can sort and filter the orders displayed.

Click the  icon to hide columns, rearrange them and specify the number of rows shown in the table.

Right-click an order status to view the order history, including information on its execution or cancellation, or the reason why it was rejected.

You can also specify the date range for which you wish to view the order history, covering up to the previous 365 days.

Order ID	Date	Status	Instrument	Quantity	Price PLN	B/S	Net	Gross	Venue	Exec. Type	Qty Exec.	Net. exec.	commissio	MWh/t	Date from	Date to
489215	2026-07-16 11:24:28	Local order	BASE_Y-30	1	1 000.00	Buy	8 760 000.0	8 765 602.1	session/m.	Normal	0	0	5 602.90	8 760.00	2026-07-16	2026-07-16
489214	2026-07-16 11:23:50	Local order	KDM_17-07-26_HL	5	23.00	Buy	115.00	118.94	session/m.	Normal	0	0	3.94	5.00	2026-07-16	2026-07-16
489213	2026-07-16 11:14:50	Local order	BASE_M-10-26	1	40.00	Buy	29 800.00	30 276.50	session/m.	Normal	0	0	476.50	745.00	2026-07-16	2026-07-16
4891298	2026-06-22 12:49:52	Cancelled	IDM_22-06-26_	10	852.08	Sell	8 520.80	8 512.93	session/m.	Normal	7.9	6 731.43	7.87	10.00	2026-06-22	2026-06-22
4891296	2026-06-22 12:46:45	Realised	IDM_22-06-26_	10	1 055.10	Sell	10 551.00	10 543.13	session/m.	Normal	10	10 556.5	7.87	10.00	2026-06-22	2026-06-22
4891291	2026-06-22 12:40:15	Cancelled	IDM_22-06-26_	5	864.86	Sell	4 324.30	4 320.36	session/m.	Normal	0	0	3.94	5.00	2026-06-22	2026-06-22
4891282	2026-06-22 12:24:11	Cancelled	IDM_22-06-26_	5	1 086.40	Sell	5 432.00	5 428.06	session/m.	Normal	0.5	543.2	3.94	5.00	2026-06-22	2026-06-22
4891281	2026-06-22 12:21:26	Realised	IDM_22-06-26_	5	1 248.81	Sell	6 244.05	6 240.11	session/m.	Normal	5	6 244.05	3.94	5.00	2026-06-22	2026-06-22
4891280	2026-06-22 12:20:35	Cancelled	IDM_22-06-26_	5	1 250.00	Sell	6 250.00	6 246.06	session/m.	Normal	0	0	3.94	5.00	2026-06-22	2026-06-22
4891277	2026-06-22 12:12:39	Cancelled	IDM_22-06-26_	5	1 261.08	Sell	6 305.40	6 301.46	session/m.	Normal	0	0	3.94	5.00	2026-06-22	2026-06-22

The screen includes the following buttons: Filters, Configure, Export to Excel and Open in new window.



5. X-Stream

5.1. X-Stream dashboard

To open the X-Stream dashboard, select **X-Stream** ➔ **X-Stream dashboard** from the menu or click the “**Your dashboards**” button  on the shortcut bar.

The X-Stream dashboard allows you to view exchange quotes and place orders. You can create multiple tabs and add personalised markets to each one.

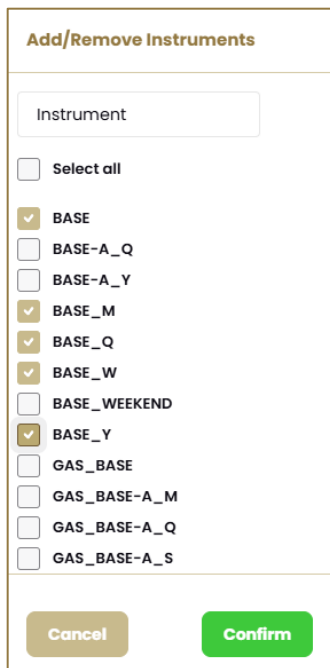
5.1.1. Managing dashboards

You can create multiple dashboards, each with its own unique name.

To open a dashboard in a new browser window, click **Open in new window** .

To add a new dashboard, click **Add dashboard** , enter a name in the window that appears and confirm it by clicking **Confirm** . Once you have created your dashboards, you can add the instruments you wish to display. To do so, click **Edit instruments**  and select the required instrument groups. Once you confirm your selection, the instruments will be displayed on the dashboard.

To remove an instrument from a dashboard, click the same button and clear the checkbox next to the relevant instrument.



The dialog box titled "Add/Remove Instruments" contains a search bar labeled "Instrument". Below it is a list of instrument groups with checkboxes. The "Select all" checkbox is unchecked. The following groups are checked: BASE, BASE_M, BASE_Q, BASE_W, and BASE_Y. The following groups are unchecked: BASE-A_Q, BASE-A_Y, BASE_WEEKEND, GAS_BASE, GAS_BASE-A_M, GAS_BASE-A_Q, and GAS_BASE-A_S. At the bottom are "Cancel" and "Confirm" buttons.

Instrument	Selected
Select all	☐
BASE	☒
BASE-A_Q	☐
BASE-A_Y	☐
BASE_M	☒
BASE_Q	☒
BASE_W	☒
BASE_WEEKEND	☐
BASE_Y	☒
GAS_BASE	☐
GAS_BASE-A_M	☐
GAS_BASE-A_Q	☐
GAS_BASE-A_S	☐

Each dashboard has its own separate configuration.

Each market is displayed as a grid (matrix or table). You can hide selected columns by clicking Configure and selecting or clearing the relevant column names, such as Trend, Last Price or Open.

To place an order from the dashboard, enter or paste the volume and price directly into the table. You can then use these details to create either a single order or a group of orders.

Whenever the best bid or offer for an instrument changes, the relevant quote flashes three times in green for an increase or red for a decrease. You can export the information currently displayed to an XLSX file.

NOBLE SECURITIES

K

Konto Techniczne

Noble Securities S.A. (Demo 1)

PL

EN

Logout

→

Desktop

Account

X-Stream

X-Stream Desktop

New Order

Open Orders

Order History

Transactions

Transaction History

Market Transactions

Market News

Order Import

SAPRI

XBID

TPNR

Reports

DESKTOP X-STREAM

BASE

RDN

Market open Mon-Fri 7:30-23:00, Sat-Sun and holidays 7:30-15:30

Base

Instrument	Phase	Buy Vol.	Buy Price	Depth	Sell Price	Sell Vol.	Last Price	Open Price	Max	Min	Volume	O/P	Rate	Fixing Vol.	Exchange Rate
BASE_17-07-26	TRADING											5.00			0.00
BASE_18-07-26	TRADING	1	1.00												0.00
BASE_M-01-27	TRADING											4.00			0.00
BASE_M-08-26	TRADING											36.00			0.00
BASE_M-09-26	TRADING											27.00			0.00
BASE_M-10-26	TRADING											6.00			0.00
BASE_M-11-26	TRADING											1.00			0.00
BASE_M-12-26	TRADING											29.00			0.00
BASE_Q-1-27	TRADING	1	2.00									40.00			0.00
BASE_Q-1-28	TRADING	1	2.00												0.00
BASE_Q-2-27	TRADING	1	2.00									20.00			0.00
BASE_Q-3-27	TRADING	109	3.00												0.00
BASE_Q-4-26	TRADING											23.00			0.00

v 3.0.0

Contrast

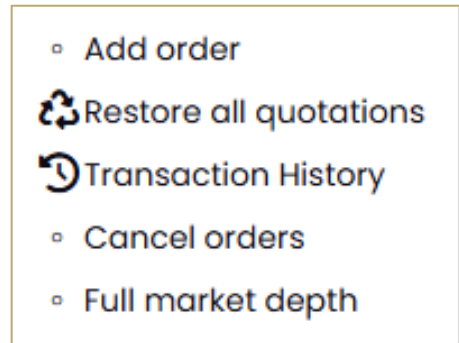
User: Konto Techniczne Last login: 16.07.2026 11:07:18 Client: Noble Securities S.A. (Demo 1) Account: 1 Change

11:42:34 • NS (1) • Quotations

5.1.2. Context menu

The dashboards include a context menu, which you can open by right-clicking. The following options are available:

- **Add order,**
- **Add counter-order,**
- **Restore all quotations** – removes any data you have entered from the selected area of the grid and restores the current market quotes,
- **Transaction history** – displays the transaction history for the selected instrument,
- **Cancel orders** – cancels orders placed for the selected instrument,
- **Full market depth** – opens a window showing the full market depth for the selected instrument.



5.1.3. Market depth

The market table includes a market depth button . Click it to display a list of buy and sell orders for the selected instrument. The number of orders shown is determined by the market depth settings for the relevant dashboard (). Click the button again to close the market depth view.

5.1.4. Placing a single order using the quick navigation button

The quick navigation bar includes an “**Add order**” button marked with the



icon. Click it to open the order entry window. To place an order, specify the following parameters:

- the instrument name, which can be selected from a drop-down list,
- the quantity, expressed in the units in which the instrument is traded on TGE,
- the buy or sell price limit,
- the order side (Buy/Sell),
- the execution type,
- the order validity type.

Two buttons are available:

Add and send

adds the order to the NS system and submits it to the exchange at the same time.

Add order

Creates an exchange order that can be submitted to the market at a later time.

After you click **Add and send** or **Add order**, the details of the order will be displayed together with its current status and, where applicable, the reason for any error.

5.1.5. Placing a single order from the X-Stream Dashboard using the context menu

Right-click the cell containing the instrument name to open the context menu, then select “Add order”.

The order entry window will open with the instrument name already completed.

The remaining steps are the same as those described in section 5.1.4.

Base					
Instrument	Phase	Buy Vol.	Buy Price	Depth	Sell Price
BASE_17-07-26	TRADING			▼	
BASE_18-07-26	TRADING	1	1.00	▼	
BASE_M-01-27	TRADING			▼	
BASE_M-08-26	TRADING			▼	
BASE_M-09-26	TRADING				
BASE_M-10-26	TRADING				
BASE_M-11-26	TRADING				
BASE_M-12-26	TRADING				
BASE_Q-1-27	TRADING				

- Add order
- Add counter order
- Restore all quotations
- Transaction History
- Cancel orders
- Full market depth

NEW ORDER

BUY

Instrument

BASE_M-08-26

Amount

Price

Wallet

NOB-TEST-TA

Type

☒ Buy
 ☐ Sell

Execution type

☒ Normal
 ☐ Execute and Cancel
 ☐ Execute or Cancel

Validity type

☒ Until the end of day
 ☐ For the day
 ☐ Until the end of the session phase

Cancel

Add order

Add and send

5.1.6. Placing one or more orders using the market grid

To place one or more orders using the market grid, enter the order parameters in the relevant cells.

For a buy order, enter the volume (quantity) of the instrument you wish to buy in the cell where the row for the selected Instrument intersects the Buy Vol. column (Buy Volume). Then enter the price limit in the cell where the row for the selected instrument intersects the Buy Price column.

Follow the same procedure for sell orders, but enter the order parameters in the cells where the row for the selected Instrument intersects the Sell Price and Sell Vol. (Sell Volume) columns.

Once you have entered the parameters, use your mouse or keyboard to select the area containing the data, then select **Add order** from the context menu.

BASE_M-01-27	TRADING				
BASE_M-08-26	TRADING	1	20.00		
BASE_M-09-26	TRADING	1	20.00		
BASE_M-10-26	TRADING	1	20.00		
BASE_M-11-26	TRADING	1	20.00		
BASE_M-12-26	TRADING				
BASE_Q-1-27	TRADING	1			
BASE_Q-1-28	TRADING	1			
BASE_Q-2-27	TRADING	1			

Add order
 Add counter order
 Restore quotations
 Restore all quotations
 Transaction History

The orders prepared in this way will appear in the order entry window with the following default parameters:

- side (Buy/Sell): determined by the grid cells in which the order parameters were entered,
- portfolio: the default portfolio for the relevant instrument category (Natural Gas, Electricity, etc.),
- execution type: Normal,
- validity type: Until end of day.

Lp.	Instrument	Typ Transakcji	Portfel	Cena	Wolumen	MWh/t	Status
1	BASE_M-08-26	Buy	NOB-TEST-TA	20.00	1	744	No status
2	BASE_M-09-26	Buy	NOB-TEST-TA	20.00	1	720	No status
3	BASE_M-10-26	Buy	NOB-TEST-TA	20.00	1	745	No status
4	BASE_M-11-26	Buy	NOB-TEST-TA	20.00	1	720	No status

Execution type
☒ Normal ☐ Execute and Cancel ☐ Execute or Cancel

Validity type
☒ Until the end of day ☐ For the day ☐ Until the end of the session phase

Buttons: Cancel, Add order, Add and send

Three buttons are available to the Client:

Buttons: Add and send, Add order, Cancel

- **Add and send** – adds the order to the NS system and submits it to the exchange at the same time.
- **Add order** – creates an exchange order that can be submitted to the market at a later time.
- **Cancel** – abandons the action and closes the window without placing the order.

After you click **Add and send** or **Add order**, the order details and current status will be displayed.

For natural gas and electricity orders, the **New order** window also shows how many MWh each order placed by the User represents.

NEW ORDER (BUY)							
Lp.	Instrument	Typ Transakcji	Portfel	Cena	Wolumen	MWh/t	Status
1	BASE_M-08-...	Buy	NOB-TEST-TA	20.00	1	744	Local order
2	BASE_M-09-...	Buy	NOB-TEST-TA	20.00	1	720	Local order
3	BASE_M-10-26	Buy	NOB-TEST-TA	20.00	1	745	Local order
4	BASE_M-11-26	Buy	NOB-TEST-TA	20.00	1	720	Local order
Close							

Important!

Buy and sell orders cannot be placed simultaneously using this method. Nor can this method be used to place orders for different instrument groups linked to different portfolios, such as natural gas and electricity.

5.1.7. Placing a counter-order

To place an order opposite to an order currently available on the market, select the relevant market offer in the market table.

Instrument	Phase	Buy Vol.	Buy Price	Depth	Sell Price	Sell Vol.
BASE_17-07-26	TRADING			▼		
BASE_18-07-26	TRADING	1	1.00	▼		
BASE_M-01-27	TRADING					
BASE_M-08-26	TRADING					
BASE_M-09-26	TRADING					
BASE_M-10-26	TRADING					
BASE_M-11-26	TRADING					

◦ Add order
 ◦ Add counter order
 ◦ Restore all quotations
 ◦ Transaction History
 ◦ Cancel orders
 ◦ Full market depth

Then select **Add counter-order** from the context menu. A dialog box will open, allowing you to choose one of the following options: **Add and send** (add the order to the NS system and submit it to the exchange at the same time); **Add order** (create the order so that it can be submitted to the exchange later); and **Cancel** (stop the order entry process).

5.2. New order

5.2.1. Placing orders

Select the New order icon to open a window where you can place a new X-Stream order.

The screenshot shows the 'NEW ORDER X-STREAM' window. The sidebar on the left includes 'Desktop', 'Account', 'X-Stream', 'New Order', 'Open Orders', 'Order History', 'Transactions', 'Transaction History', 'Market Transactions', 'Market News', 'Order Import', 'SAPRI', 'XBID', 'TPNR', and 'Reports'. The main content area is titled 'NEW ORDER X-STREAM' and contains 'Order parameters'. The parameters include: Instrument (text input), Amount (text input), Price (text input), Wallet (dropdown), Type (radio buttons for Buy and Sell), Execution type (radio buttons for Normal, Execute and Cancel, and Execute or Cancel), and Validity type (radio buttons for Until the end of day, For the day, and Until the end of the session phase). At the bottom right, there are 'Add order' and 'Add and send' buttons. The footer shows user information: 'User: Konto Techniczne', 'Last login: 16.07.2026 11:07:11', 'Client: Noble Securities S.A. (Demo I)', 'Account: 1', and 'Change'.

You can also place a new single order using the quick navigation button on the toolbar.



The quick navigation bar includes an “**Add order**” button marked with the  icon. Click it to open the order entry window.

The screenshot shows the 'Order parameters' window with a green header. The header contains 'Order parameters' and 'BUY'. The parameters are: Instrument (BASE_18-07-26), Amount (1), Price (1.00), Wallet (NOB-TEST-TA), Type (Buy), Execution type (Normal), and Validity type (Until the end of day). At the bottom right, there are 'Add order' and 'Add and send' buttons.

To place an order, specify the following parameters:

- the instrument name, which can be selected from a drop-down list,
- the quantity, expressed in the units in which the instrument is traded on TGE,
- the buy or sell price limit,
- the order side (Buy/Sell),
- the execution type,
- the order validity type.

Two buttons are available:

- **Add and send** – adds the order to the NS system and submits it to the exchange at the same time.
- **Add order** – creates an exchange order that can be submitted to the market at a later time.

After you click Add and send or Add order, the order details will be displayed together with its current status and, where applicable, the reason for any error.

5.3. Open orders

5.3.1. Options available on the Open orders screen

The **Open orders** screen allows you to view your open X-Stream orders. Right-click an order status to view the order history (including information on its execution, cancellation or the reason why it was rejected) and order modification history. You can also amend or block an order if its current status permits it.

Order ID	Date	Instrument code	Status	Quantity	Price	B/S	Validity	Netto	Gross	Venue	Exec. Type	Qty Exec.	Net. exec.	Amm.issak	MWh	Date from
489264	2026-07-17 07:56:44	BASL_M-10-26	To be sent	1	20.00	Buy	Until the end ..	14 900.00	15 376.50	session/m...	Normal	0	0	476.50	746	2026-07-17
489263	2026-07-17 07:56:31	BASL_M-9-26	To be sent	1	20.00	Buy	Until the end ..	14 400.00	14 860.51	session/m...	Normal	0	0	460.51	720	2026-07-17
489262	2026-07-17 07:56:16	BASL_M-12-26	Local order	1	10.00	Buy	Until the end ..	7 440.00	7 915.88	session/m...	Normal	0	0	475.88	744	2026-07-17

Minimal price: 10.00 Maximal price: 20.00 Average price per MWh: 16.67 Quantity: 3

5.3.1.1. Amending an order

You can amend the price or quantity of an active order submitted to the market by right-clicking it and selecting **Modify**.

- Order history
- Order modification history
- **Modify**
- Block

MODIFY ORDER - 4892115

Amount

Price

Cancel modification

Cancel order

Confirm

Accept and send

Once you select **Modify**, the order will be suspended on the market until you confirm the changes and resubmit it, or cancel the amendment.

5.3.2. Submitting (activating) open orders

Open orders must be submitted to the exchange system from the **Open orders** screen.

Each row contains a checkbox which you can use to select the orders you wish to submit to the exchange system. Once you have selected the relevant orders, click **Send selected**. The orders will then be submitted to the exchange system.

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X-Stream

X-Stream Desktop

New Order

Open Orders

Order History

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New Order

Open Orders

Order History

5.4. Order history

You can view the Client's complete X-Stream order history on the **Order history** screen. As on the other order screens, you can sort and filter the orders displayed. Right-click an order to view its history, including information on its execution or cancellation, or the reason why it was rejected.

You can also specify the date range for which you wish to view the orders, covering up to the previous 365 days.

NOBLE SECURITIES

Konto Techniczne
Noble Securities S.A. (Demo 1)

X-STREAM ORDER HISTORY

Choose date range to be shown below: 2026-07-09 - 2026-07-16 **Show**

Order ID	Date	Instrument code	Status	Quantity	Price	B/S	Validity	Netto	Gross	Venue	Exec. Type	Qty Exec.	Net. exec.	Commission	MWh	Date from	Date to
4892127	2026-07-16 11:54:49	BASE_M-07-26	Local order	1	1.00	Buy	Until the end ...	24.00	42.89	session/m...	Normal	0	0	18.89	24	2026-07-16	2026-07-16
4892126	2026-07-16 11:48:54	BASE_M-11-26	Local order	1	20.00	Buy	Until the end ...	14 400.00	14 860.51	session/m...	Normal	0	0	460.51	720	2026-07-16	2026-07-16
4892125	2026-07-16 11:48:54	BASE_M-10-26	Local order	1	20.00	Buy	Until the end ...	14 900.00	15 376.50	session/m...	Normal	0	0	476.50	745	2026-07-16	2026-07-16
4892124	2026-07-16 11:48:54	BASE_M-09-26	Local order	1	20.00	Buy	Until the end ...	14 400.00	14 860.51	session/m...	Normal	0	0	460.51	720	2026-07-16	2026-07-16
4892123	2026-07-16 11:48:54	BASE_M-08-26	Local order	1	20.00	Buy	Until the end ...	14 880.00	15 355.86	session/m...	Normal	0	0	475.86	744	2026-07-16	2026-07-16
4892115	2026-07-16 11:24:28	BASE_Y-30	Local order	1	1 000.00	Buy	Until the end ...	8 760 000	8 765 602	session/m...	Normal	0	0	5 602.60	8 760	2026-07-16	2026-07-16
4892114	2026-07-16 11:23:50	RDN_17-07-26_H18	Local order	5	23.00	Buy	Until the end ...	115.00	118.94	session/m...	Normal	0	0	3.94	1	2026-07-16	2026-07-16
4892113	2026-07-16 11:14:50	BASE_M-10-26	Local order	1	40.00	Buy	Until the end ...	29 800.00	30 276.50	session/m...	Normal	0	0	476.50	745	2026-07-16	2026-07-16

Page 1 of 1

10 Items per page, 1-8 of 8 items

Minimal price	Maximal price	Average Price in MWh	Quantity	MWh/t	Net	Gross	Commission
1.00	1 000.00	103.00	12	12 463.00	8 848 519.00	8 856 484.61	7 975.61

v 3.0.0 Contrast User: Konto Techniczne Last login: 16.07.2026 13:29:13 Client: Noble Securities S.A. (Demo 1) Account: 1 Change 13:31:40 • NS (1) • Quotations

5.5. Transactions

This screen allows you to view all transactions executed on the account during the current day.

Transactions can be sorted and filtered. You can also hide columns and change the order in which they are displayed. These options are available from the toolbar containing the function buttons.



5.6. Transaction history

This screen is similar to the Transactions screen. It allows you to view transactions concluded on the account during a period of your choice.

Transactions can be sorted and filtered. You can also hide columns, change the order in which they are displayed and specify the number of rows shown in the table by clicking the pencil icon. These options are available from the function button toolbar.



5.7. Market transactions

This screen displays current market transactions, which you can sort as required. The function buttons also allow you to filter and configure the data, export it to an XLS file or open it in a new window.



5.8. Messages

This screen displays messages received from the exchange system.

5.9. Order import

The Order import function allows you to prepare multiple buy or sell orders at the same time by pasting them into an order grid. It also allows you to place several orders for the same instrument simultaneously. Orders submitted in this way must be for instruments from the same category, such as natural gas or electricity, and must share the same validity type: valid until the end of the day or until the end of the session phase.

To place orders using the Order import function, go to:

X-Stream → Order import. Then select one of the two available order validity types. The remaining order parameters:

- instrument names,
- order side (Buy/Sell),
- price limit,
- volume,

must be pasted from an Excel spreadsheet or entered manually. The cells in the Instrument column contain a list of available instruments. To open the list, double-click the relevant cell or press Enter. You can filter the list by entering part of an instrument name.

Instrument	B/S	Price	Amount
BASE_M-12-26	Buy	10.00	1.00
BASE_M-12-26	Buy	10.00	1.00
BASE_M-12-26	Buy	10.00	1.00

Once all order parameters have been entered correctly, the **Portfolio** field will become available. If the Client has only one Portfolio of the relevant type, the system will select it automatically and display it in the Portfolio field. If the Client has more than one Portfolio for a given instrument category, you must select the relevant Portfolio yourself.

After selecting the Portfolio, click **Prepare**. The system will then verify that the order volumes meet the trading requirements for the relevant instruments and that all orders relate to the same commodity group. Any invalid order parameters will be highlighted in red so that you can correct them.

If any invalid orders are detected, you can return to the order grid and amend them or exclude them from the order submission process.

The next step displays a summary of the orders you have prepared and allows you to select which of them should be processed further.

X-STREAM ORDER IMPORT

Market open Mon-Fri 7:30-23:00, Sat-Sun and holidays 7:30-15:30

MWh sum of orders buy: 2209
MWh sum of orders sell: 0
Amount of orders: 3

Remove	No.	Instrument	B/S	Price	Amount	MWh/t	Validity type	Wallet	Status
	1	BASE_M-10-26	Buy	10.00	1.00	745.00	Until the end of day	NOB-TEST-TA	New
	2	BASE_M-11-26	Buy	10.00	1.00	720.00	Until the end of day	NOB-TEST-TA	New
	3	BASE_M-12-26	Buy	10.00	1.00	744.00	Until the end of day	NOB-TEST-TA	New

Back
Cancel
Accept
Accept and send

Four buttons are available:

Back
Cancel
Accept
Accept and send

- **Back** – returns you to the order entry screen, where you can modify the orders.
- **Cancel** – abandons the order submission process and returns you to the previous screen, with all order details cleared.
- **Accept** – creates local orders, which can be submitted to the exchange at a later time.
- **Accept and send** – submits the orders to the NS system and sends them to the exchange system.

Once you click **Accept** or **Accept and send**, the table will be updated with the current status of the processed orders and the volumes, in MWh, covered by the buy and sell orders.

6. SAPRI

6.1. Single Order

NOBLE SECURITIES

Market open Mon-Fri 7:30-23:00, Sat-Sun and holidays 7:30-15:30

Single Order

min: PLN -3 000.00
max: PLN 20 000.00

Wallet: NOB-TEST-TA
Columns: 2
Status:

Auction: 2026-07-17-LOCAL-60_MTU
Net: 0.00 PLN
Gross: 0.00 PLN

Delivery date: 2026-07-17
Market closing: 2026-07-16 10:30:00
Table actions:

Period	Hour	CET	Price	Volume
1	01	00:00-01:00		
2	02	01:00-02:00		
3	03	02:00-03:00		
4	04	03:00-04:00		
5	05	04:00-05:00		
6	06	05:00-06:00		
7	07	06:00-07:00		

v 3.0.0

Contrast: [Yellow Box]

User: Konto Techniczne Last login: 16.07.2026 13:29:13 Client: Noble Securities S.A. (Demo 1) Account: 1 Change

133914 • NS (1) • Quotations

This screen is used to place, amend and cancel Price Coupling of Regions (PCR), IDA and LOCAL orders traded through the SAPRI TRADE exchange system.

The Single Order screen contains a grid (table) in which the first row shows the price levels for a given delivery period, while the second row shows the buy or sell volume entered by you for each price level in that delivery period.

The screen also displays the following information:

- the required minimum and maximum price levels for the orders,
- the order status,
- the selected Portfolio for which the order is placed,
- the number of columns,
- the maximum net and gross order value,
- the Auction for which the order is being placed,
- the deadline (date and time) for placing, amending and cancelling orders,
- the number of columns (steps) displayed in the table, up to a maximum of 128.

To place an order, first select the Auction for which you wish to submit the order and enter the Number of columns in the order. Next, click the **Pencil** icon  and paste the matrix

you have prepared containing the buy/sell order. For sell orders, the volume must be preceded by a minus sign ("-"). After checking the data entered, save the prepared order by clicking **Save**



. The order will then become a local order. To submit it to the exchange, click the **Save**

data and send to exchange



icon.

To amend a Single order, overwrite the order currently submitted. You can amend an individual parameter for a given delivery period. This can only be done while the order is a local order.



Click the icon to activate the matrix, where you can amend the relevant parameter.

After making the change, save the order



and then submit it to the exchange.



The window **Auction:** displays only the Auctions that are currently available, as specified in the Exchange schedule.

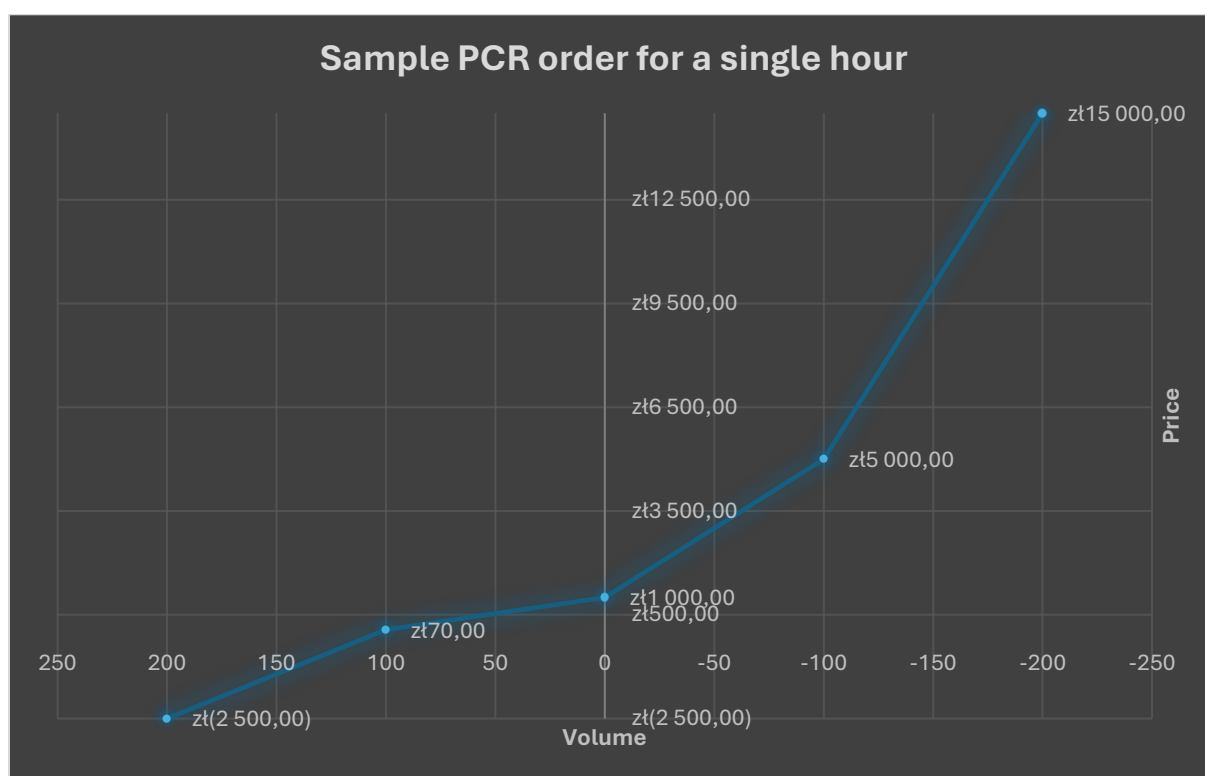
6.2. Placing orders in the SAPRI TRADE system

6.2.1. Introduction

An order in the SAPRI system consists of a set of curves, each representing the quantity of electricity that the Client wishes to buy or sell at different price levels. A SAPRI order is best illustrated graphically on a chart, where each point represents a volume-price pair included in the order. Linear interpolation is applied between adjacent points.

When placing orders in the SAPRI system, you must follow the rules set out below.

- Each order must include the minimum and maximum price levels. These are calculated daily on the basis of the current exchange rate and displayed in the system.
- Successive price levels must increase monotonically. In other words, prices must be arranged from the minimum to the maximum, with each price level higher than the preceding one.
- Order volumes must decrease monotonically as the price increases. This means that the volume entered for each price level must be equal to or lower than the volume entered for the preceding, lower price level.
- The volume may be positive, zero or negative. A positive value represents an offer to buy. A value of zero means that there is no interest in buying or selling electricity at the specified price, while a negative value represents an offer to sell.



The order shown above can be presented in a table:

Volume	Price
200	- PLN 2,500.00
100	PLN 70.00
0	PLN 1,000.00
-100	PLN 5,000.00
-200	PLN 15,000.00



Side	Volume	Price
Buy	200	- PLN 2,500.00
Buy	100	PLN 70.00
-----	0	PLN 1,000.00
Sell	100	PLN 5,000.00
Sell	200	PLN 15,000.00

The order should be interpreted as follows:

- At the minimum price of PLN - 2,500.00/MWh, which is a negative value, the Client is willing to buy 200 MWh of electricity.
- At a price of PLN 70.00/MWh, the Client is willing to buy 100 MWh of electricity.
- At a price of PLN 1,000.00/MWh, the Client is willing neither to buy nor to sell electricity.
- At a price of PLN 5,000.00/MWh, the Client is willing to sell 100 MWh of electricity.
- At the maximum price of PLN 15,000.00/MWh, the Client is willing to sell 200 MWh of electricity.

Please note that, if the fixing price is between two price levels specified by the Client in the order, the buy or sell volume will be calculated by linear interpolation.

Example:

If the fixing price is set at PLN 3,000.00/MWh, the interpolated volume between the points [0 MWh; PLN 1,000.00/MWh] and [-100 MWh; PLN 5,000.00/MWh] will be -50 MWh, meaning that the Client will sell 50 MWh at a price of PLN 3,000.00/MWh.

Intraday Auctions (IDAs) are handled by the system in the same way as the PCR process. For further information, please refer to the applicable regulations and the website of Towarowa Giełda Energii S.A.

6.2.2. Placing Market Coupling, IDA and LOCAL orders in NSenergy

To place an order in the SAPRI system, go to **SAPRI → Single Order**. Then click **Edit order**  to switch to edit mode.

Once edit mode has been enabled, you can enter data in the order table by typing or pasting the parameters of your order, namely the price levels and the buy or sell volumes.

The first row shows the price levels for the relevant delivery period, while the next row shows the buy or sell volume entered for each price level in that delivery period.

When preparing an order, pay particular attention to the variable minimum and maximum price levels. These are shown below the Single Order label and must be included in the order as the first and last price levels respectively.

If you have more than one electricity portfolio, make sure that you have selected the correct one.

The completed order must be confirmed using the  button. The system will then validate the order and save it locally on the NS server.

Important! The saved order must then be submitted to the exchange system by clicking the  button. Only when the order has the status “Confirmed (order on the exchange)” is its participation in the relevant TGE auction/session guaranteed.

The order entry window also contains two tabs:



- **Single Order** – used to edit an order and save it locally on the NS server,
- **TGE Single Order** – read-only; this tab shows the current order submitted to the SAPRI exchange system.

An order may have one of the following statuses:

- **Submitted** – the order has been saved locally on the NS server,
- **Being sent to the exchange** – the order is being sent to or processed by the exchange system,
- **Accepted (order on the exchange)** – the order has been accepted by the exchange system,
- **Modified** – the local order differs from the order accepted by the exchange system,
- **Cancelled** – the order has been cancelled in the exchange system,
- **Error** – the order was entered incorrectly or rejected by the exchange system.

6.3. Amending Market Coupling orders in NSenergy

The procedure for amending an order in the SAPRI system is similar to that for placing a new order. However, you must also ensure that the following additional conditions are met so that the amended order complies with the SAPRI exchange system requirements:

- the new order matrix must contain at least as many entries as the order being amended,
- to remove an order for a single hour, replace the existing volumes with 0 at each price level.

To amend a Single order, overwrite the order currently submitted. You can amend an individual parameter for a given delivery period. This can only be done while the order is a local order.

Click the  icon to activate the matrix, where you can amend the relevant parameter.

After making the change, save the order  and then submit it to the exchange .

Once saved, the amended order will have the status **Modified** and must be submitted to the exchange using the  button. Only the status “Confirmed (order on the exchange)” indicates that the order has been accepted by the exchange system.

6.4. Cancelling SAPRI orders in NSenergy

To cancel an order in the SAPRI system, click **Cancel order** . You will then be asked to confirm that you wish to cancel the order submitted to the exchange system.

Once you confirm the cancellation, a request to cancel the order will be sent to the exchange system immediately.

Note!

From a technical perspective, cancelling a SAPRI order involves overwriting the existing order with a new order that meets the following conditions:

- the new order matrix has the same dimensions as the order being cancelled,
- the new order contains all the price levels included in the order being cancelled,
- all volumes in the new order are set to 0.

6.5. Block Order

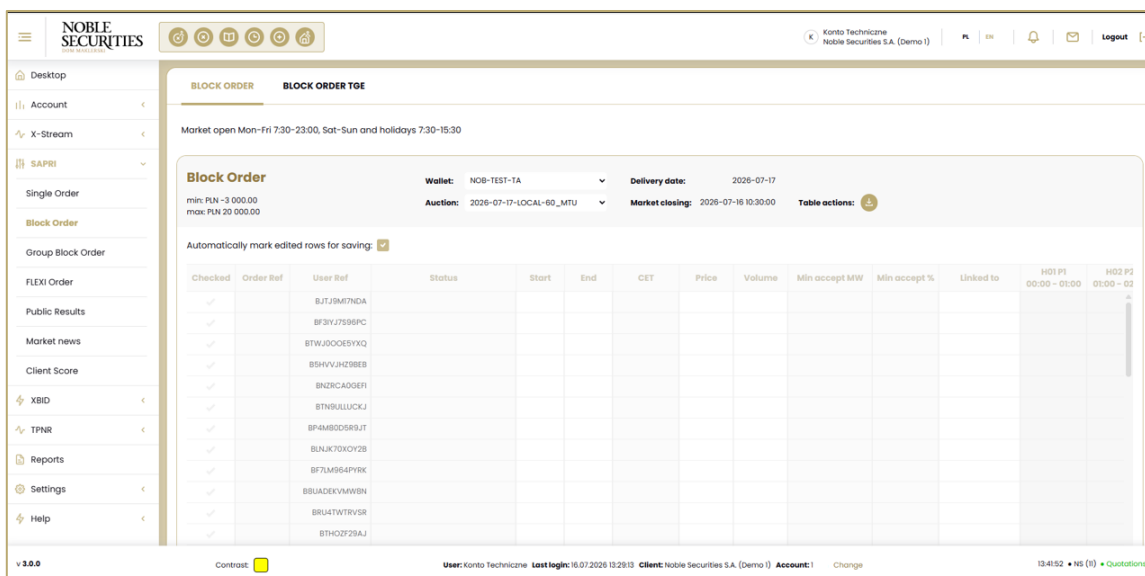
Block Orders (BOs) are orders covering a sequence of consecutive delivery periods within a given MTU. A single price limit is specified for the block order, together with volumes for each delivery period, which may be the same or different for individual periods. BOs remain valid until the end of the auction in which they were submitted.

Block Orders in the LOCAL and DAYAHEAD Auctions are available separately for each MTU type (15-, 30- and 60-minute MTUs):

- buy volumes are entered as positive values, e.g. 100 MW,
- sell volumes are entered as negative values, e.g. -100 MW.

A **Local Block Order** is an order placed on the local market. Its price is compared with the market price, calculated as the volume-weighted average for the hours included in the order. The order will be accepted only if the relevant price condition is satisfied.

A **TGE Block Order** is an order submitted to the Polish Power Exchange and may be linked with other orders to form a **Group Block Order**. These orders must meet the price and volume conditions specified by the Exchange.



BLOCK ORDER

BLOCK ORDER TGE

The order entry window contains two tabs:

- **Block Order** – used to edit an order and save it locally on the NS server,
- **TGE Block Order** – read-only; this tab shows the current order submitted to the SAPRI exchange system.

To place an order, select one of the currently available Auctions and then select a Portfolio if more than one is available. When placing an order, make sure that all conditions required

for its successful submission to TGE are met. To place an order, click the pencil icon , and enter the required details of the buy or sell order. For sell orders, the volume must be preceded by a minus sign ("−"). After checking the order parameters, save the order using

the  button. The order will then become a local order. To submit it to the Exchange, click

the **Save data and send to exchange**  icon.

6.6. Linked Block Orders

Linked Block Orders (LBOs) are Block Orders linked so that the execution of one Block Order depends on the execution of another, creating a cause-and-effect relationship. In other words, the Block Orders are linked through a defined parent-child relationship. A child Block Order may be linked to another Block Order, which then becomes the parent order.

LBOs are defined in the same way as Block Orders (BOs), except that the Block Order to which the order is to be linked must also be specified.

Checked	Order Ref	User Ref	Status	Start	End	CET	Price	Volume	Min accept MW	Min accept %	Linked to	H01 P1 00:00 - 01:00	H02 P1 01:00 - 02:00
✓		BJTJ9M17NDA											
✓		BF3YJ7596PC											
✓		BTWJ000E5YXQ											

6.7. Group Block Order

The order entry window contains two tabs:



- **Group Block Order** – used to edit an order and save it locally on the NS server,
- **TGE Group Block Order** – read-only; this tab shows the current order submitted to the SAPRI exchange system.

A **Group Block Order (GBO)** consists of Block Orders grouped together, of which only one may be accepted.

GBOs are defined in the same way as Block Orders, except that each Block Order must also be assigned to a named group.

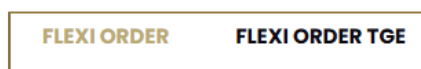
A **Local Group Block Order** is an order placed on the local market, where Block Orders are grouped together and the minimum acceptance ratio for each order in the group is always 100%.

A **TGE Group Block Order** is an order submitted to the Polish Power Exchange. It allows one Group Block Order to be placed per Portfolio, comprising no more than two Block Orders.

To place an order, click the **Pencil** icon  and enter the required details of the buy or sell order. For sell orders, the volume must be preceded by a minus sign ("−"). After checking the details, save the prepared order using the  button. The order will then become a local order. To submit it to the exchange, click the **Save data and send to exchange**  icon.

6.8. Flexi Order

The order entry window contains two tabs:



- **Flexi Order** – used to edit an order and save it locally on the NS server,
- **TGE Flexi Order** – read-only; this tab shows the current order submitted to the SAPRI exchange system.

A **Flexi Order** (FO) is a flexible order treated as a group of Block Orders with a minimum acceptance ratio of 100%.

To define a Flexi Order, specify a single price limit, a single volume for each delivery period of the selected MTU, the number of delivery periods and the time window within which the specified number of periods may be selected.

The Euphemia algorithm determines the delivery periods in which the order is accepted, based on an optimisation criterion designed to maximise the auction’s economic surplus.

To place an order, click the **Pencil** icon  and enter the required details of the buy or sell order. For sell orders, the volume must be preceded by a minus sign (“-”). After checking the details, save the prepared order using the  button. The order will then become a local order. To submit it to the exchange, click the **Save data and send to exchange**  icon.

6.9. Public results

This screen displays aggregated data for a particular fixing conducted in the SAPRI system for the PL bidding zone.

NOBLE SECURITIES

Account

X-Stream

SAPRI

Single Order

Block Order

Group Block Order

FLEXI Order

Public Results

Market news

Client Score

XBID

TPNR

Reports

Settings

Help

PUBLIC RESULTS

Choose date

Auction: LOCAL

MTU: 15_MTU

Date: 2026-07-11

Show results

Export to excel

Period	CET	Area Price (PLN/MWh)	Area Price (EUR/MWh)	Buy (MW)	Sell (MW)	Net (MW)
1	00:00 - 00:15	18492.78	---	50.8	8.0	42.8
2	00:15 - 00:30	19246.39	---	50.8	8.0	42.8
3	00:30 - 00:45	19497.59	---	50.8	8.0	42.8
4	00:45 - 01:00	19623.19	---	50.8	8.0	42.8
5	01:00 - 01:15	20000.00	---	50.0	8.0	42.0
6	01:15 - 01:30	20000.00	---	50.0	8.0	42.0
7	01:30 - 01:45	8500.00	---	50.0	8.0	42.0
8	01:45 - 02:00	8500.00	---	50.0	8.0	42.0
9	02:00 - 02:15	20000.00	---	41.0	8.0	33.0
10	02:15 - 02:30	3705.37	---	41.0	8.0	33.0
11	02:30 - 02:45	20000.00	---	41.0	8.0	33.0
12	02:45 - 03:00	20000.00	---	41.0	8.0	33.0
13	03:00 - 03:15	20000.00	---	8.0	8.0	0.0
14	03:15 - 03:30	-3000.00	---	0.0	0.0	0.0
15	03:30 - 03:45	20000.00	---	8.0	8.0	0.0
16	03:45 - 04:00	20000.00	---	8.0	8.0	0.0

v 3.0.0

Contrast:

User: Konto Techniczne Last login: 16.07.2026 13:29:10 Client: Noble Securities S.A. (Demo I) Account: 1 Change

15:18:42 • 16 (1) • Questions

To view the public results, select the **Auction** and **MTU** for which you wish to display the results, as well as the relevant date. Results for the previous 30 days are available.

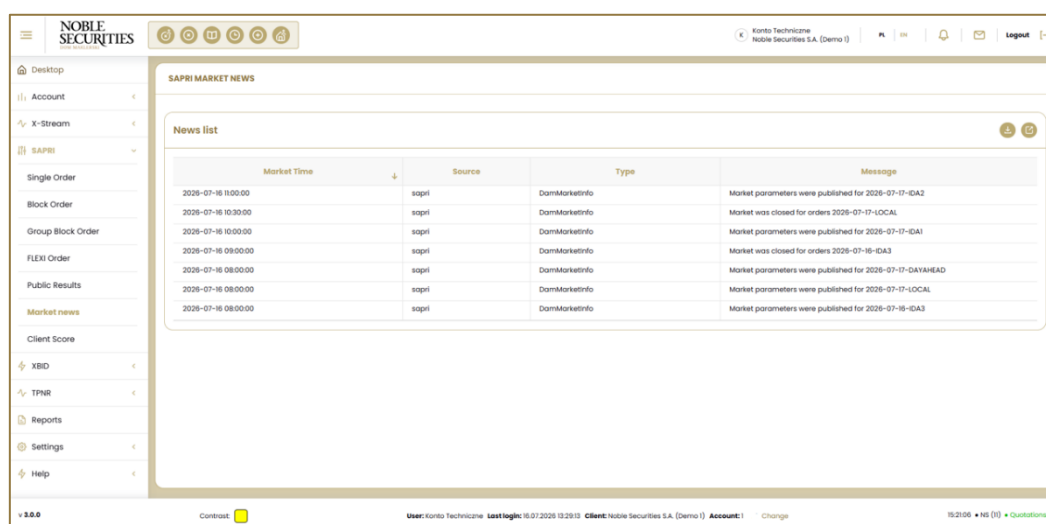
The data is presented in a table and includes:

- the price per 1 MWh of electricity, shown as the area price in PLN/MWh and EUR/MWh, broken down by hour,
- the volume of electricity bought and sold in the PL bidding zone, broken down by hour,
- a summary showing the minimum, maximum and average values, as well as the total for each column.

You can also view historical results for the PL bidding zone on this screen.

6.10. Messages

This screen displays messages received from the SAPRI exchange system.



Market Time	Source	Type	Message
2026-07-16 11:00:00	sapri	DamMarketInfo	Market parameters were published for 2026-07-17-DA2
2026-07-16 10:30:00	sapri	DamMarketInfo	Market was closed for orders 2026-07-17-LOCAL
2026-07-16 10:00:00	sapri	DamMarketInfo	Market parameters were published for 2026-07-17-DA1
2026-07-16 09:00:00	sapri	DamMarketInfo	Market was closed for orders 2026-07-16-DA3
2026-07-16 08:00:00	sapri	DamMarketInfo	Market parameters were published for 2026-07-17-DAYAHEAD
2026-07-16 08:00:00	sapri	DamMarketInfo	Market parameters were published for 2026-07-17-LOCAL
2026-07-16 08:00:00	sapri	DamMarketInfo	Market parameters were published for 2026-07-16-DA3

Using the navigation buttons, you can export the list of messages to an XLS file or open it in a new window.



6.11. Client results

This screen presents the Client’s results in table format, separately for each of the Client’s Portfolios.

CLIENT RESULTS

Choose date

Wallet: NOB-TEST-TA

Auction:

Date: 2020-07-16

Show results

Total

Single Order

Block Order

Hour	Price (PLN/MWh)	Volume Single	Volume Block	Volume Total
------	-----------------	---------------	--------------	--------------

Select the **Date**, **Auction** and **MTU** for which you wish to view the results. You can also select the type of order for which the results are to be displayed.

Total

Single Order

Block Order

This screen also allows you to view historical results for your Portfolios and Auctions and download the data as an Excel file.

7. XBID

XBID is a cross-border intraday market.

7.1. XBID Dashboard

XBID-name	Contract	Phase	Status	Bid Vol.	Bid	Depth	Ask	Ask Vol.	Trend	Last	Max	Min	Volume	Contract id	Currency	Area	TimeZone
00:00-00:15_XB	IDM_16-07-26_Q0015	OPEN	OPEN							0.00	0.00	0.00	0	121011	EUR	PRE	CET
00:15-00:30_XB	IDM_16-07-26_Q0030	OPEN	OPEN							0.00	0.00	0.00	0	121012	EUR	PRE	CET
00:30-00:45_XB	IDM_16-07-26_Q0045	OPEN	OPEN							0.00	0.00	0.00	0	121013	EUR	PRE	CET
00:45-01:00_XB	IDM_16-07-26_Q0100	OPEN	OPEN							0.00	0.00	0.00	0	121014	EUR	PRE	CET
01-01_XB	IDM_16-07-26_H01	OPEN	OPEN							0.00	0.00	0.00	0	121015	EUR	PRE	CET
01:00-01:15_XB	IDM_16-07-26_Q0115	OPEN	OPEN							0.00	0.00	0.00	0	121016	EUR	PRE	CET
01:15-01:30_XB	IDM_16-07-26_Q0130	OPEN	OPEN							0.00	0.00	0.00	0	121017	EUR	PRE	CET
01:30-01:45_XB	IDM_16-07-26_Q0145	OPEN	OPEN							0.00	0.00	0.00	0	121018	EUR	PRE	CET
01:45-02:00_XB	IDM_16-07-26_Q0200	OPEN	OPEN							0.00	0.00	0.00	0	121019	EUR	PRE	CET
01-02_XB	IDM_16-07-26_H02	OPEN	OPEN							0.00	0.00	0.00	0	121020	EUR	PRE	CET
02:00-02:15_XB	IDM_16-07-26_Q0215	OPEN	OPEN							0.00	0.00	0.00	0	121021	EUR	PRE	CET
02:15-02:30_XB	IDM_16-07-26_Q0230	OPEN	OPEN							0.00	0.00	0.00	0	121022	EUR	PRE	CET
02:30-02:45_XB	IDM_16-07-26_Q0245	OPEN	OPEN							0.00	0.00	0.00	0	121023	EUR	PRE	CET
02:45-03:00_XB	IDM_16-07-26_Q0300	OPEN	OPEN							0.00	0.00	0.00	0	121024	EUR	PRE	CET

Orders on this market are placed for instruments corresponding to hourly and quarter-hourly delivery periods, with prices quoted in euros.

To the right of the tab is a 'Configure' button . Clicking this opens a window where you can configure the dashboard table settings, including:

- selecting which columns to visible;
- the number of market depth levels displayed in the table;
- colorize hourl instruments;
- selecting the sorting method, i.e.

According to delivery time (default)

According to delivery time, hour
instruments first

According to delivery time, fifteen
minute instruments first

DESKTOP TABLE SETTINGS

Visible column selection

XBID-name
Contract
Phase
Status
Bid Vol.
Bid
Depth
Ask

Ask Vol.
Trend
Last
Max
Min
Volume
Contract id
Currency

Area
TimeZone

Maximum visible market depth

10

Colorize hour instruments

☒

Sorting type selection

According to delivery time, hour instrumen...

Cancel

Clear

Save

The **“XBID Dashboard”** tab contains an Intraday Market grid showing, for each instrument, the best available market bids and offers in the following columns: Buy Volume, Buy Price, Sell Price and Sell Volume. It also displays information on completed transactions, including the latest transaction price, the minimum and maximum prices and the total volume traded.

Orders on the Intraday Market are placed in the same way as on the other markets. The only difference is that you must select **“XBID Dashboard”** from the **“XBID”** menu instead of **“X-Stream Dashboard”** from the **“X-Stream”** menu. The Order import function is also available.

On the quick navigation bar, the icon for placing orders on the XBID market is shown as follows:



NEW ORDER XBID

Order parameters

Market open Mon-Fri 7:30-23:00, Sat-Sun and holidays 7:30-15:30

Instrument

Instrument

Amount

Price

Wallet

Type

☐ Buy
☐ Sell

Execution type

☒ Normal
☐ Execute and Cancel
☐ Execute or Cancel

Add order

Add and send

7.2. New order

The procedure for placing a new XBID order is the same as for orders placed through the “X-Stream” menu.

7.3. Open orders

This screen displays open orders on the XBID market. The functionality of this screen is similar to that of the corresponding screen in the “X-Stream” menu.

7.4. Order history

This tab allows the Client to view their complete XBID order history. The functionality of this screen is similar to that of the corresponding screen in the “X-Stream” menu.

7.5. Transactions

This screen allows you to view all transactions executed on the XBID market in the account during the current day. The functionality of this screen is similar to that of the corresponding screen in the “X-Stream” menu.

7.6. Transaction history

This screen serves a similar purpose to the **Transactions** screen. It allows you to view transactions executed on the account over a selected period. It offers the same functionality as the corresponding screen in the “X-Stream” menu.

7.7. Market transactions

This screen displays current market transactions on the XBID market.

7.8. Messages

This screen displays messages relating to the XBID market received from the M7 exchange system.

7.9. Order import

The **Order import** screen allows you to submit multiple XBID orders at the same time. The functionality of this screen is similar to that of the corresponding screen in the “X-Stream” menu.

8. TPNR

Off-session transactions are executed outside the single-price auction and continuous trading systems, and are settled in cash without the involvement of NS.

8.1. TPNR

This screen allows you to view, submit and conclude uncleared off-session transactions. It contains:

- a grid showing incoming orders, which you can accept or reject,
- a grid showing your own submitted off-session orders, i.e. sell orders addressed to a counterparty,
- a form for submitting a new sell order.

INCOMING TPNR ORDERS

Accept - ✓

Reject - ✕

✓	✕	Date	Instrument	B/S	Quantity	Price PLN	Seller	Buyer	Status
---	---	------	------------	-----	----------	-----------	--------	-------	--------

OWN TPNR ORDERS

Cancel - ✕

✕	Date	Order ID	Instrument	B/S	Status	Quantity	Price PLN	Buyer	Validity date
---	------	----------	------------	-----	--------	----------	-----------	-------	---------------

NEW ORDER

Instrument

Instrument

Counterparty RSP Code

Volume

Price

Order Type

Buy

Sell

Choose date

Add order

NSenergy 3.0 I User Guide

50

8.2. New order

This screen contains a form for submitting a new off-session order.

The screenshot shows the 'NEW ORDER (SELL)' interface. On the left is a sidebar menu with options: Desktop, Account, X-Stream, SAPRI, XBID, TPNR, New Order, Order History, Reports, Settings, and Help. The main area is titled 'NEW ORDER (SELL)' and contains a red header 'Order parameters' with a 'SELL' button. Below the header, there are input fields for 'Instrument', 'Price', 'Counterparty RSP Code', 'Order Type' (with 'Buy' and 'Sell' radio buttons), 'Volume', and 'Choose date'. An 'Add order' button is at the bottom right. The footer contains version information (v 3.0.0), a contrast toggle, user details (User: Konto Techniczne, Last login: 16.07.2026 13:29:13, Client: Noble Securities S.A. (Demo 1), Account: 1002), and a timestamp (15:29:09 • 16 (1) • Quotations).

To submit a new sell order, select the Instrument and the counterparty's RSP code, then specify the quantity, price, transaction side and execution date.

To select the correct code in the **Counterparty RSP code** field, enter the first few characters of the code or the counterparty's name. The system will automatically show a list of available codes that match your entry.

8.3. Order history

This screen contains the Client's complete off-session order history. The functionality of this screen is similar to that of the corresponding screen in the "X-Stream" and "XBID" menus.

9. Reports

This screen allows you to download reports from the available list for a selected period.

It also provides a brief description of the selected report and allows you to download it as an XLSX file after clicking “Select”.



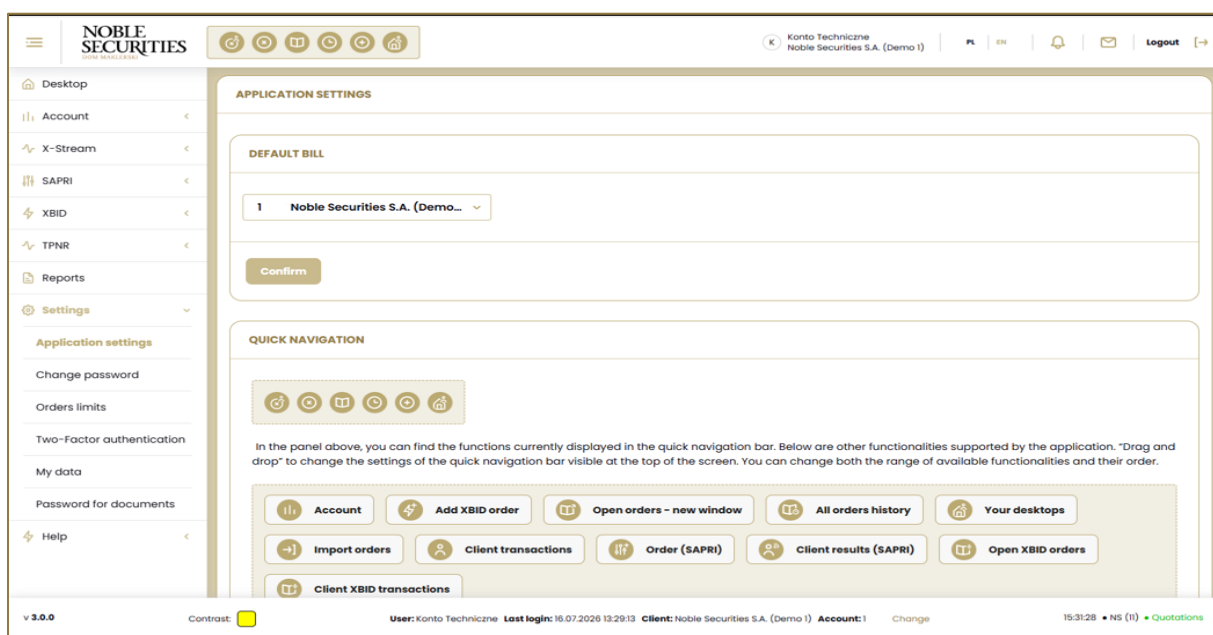
The following reports are available to the User:

- **Delivery schedule** – generates a tabular report in XLS format showing electricity and natural gas positions delivered during the selected period. The positions comprise daily deliveries arising from concluded futures contracts and spot transactions (RDNiB).
- **Delivery schedule – summary** – generates a tabular report in XLS format containing an aggregate summary of buy and sell transactions in annual, quarterly, monthly, weekly and spot instruments for each day of the selected period.
- **Client analytics** – generates a tabular report in XLS format showing accounting entries posted to the Client’s cash account during the selected period.
- **Daily summary of Client operations** – generates a tabular report in XLS format showing cumulative amounts for the specified types of financial operations on the Client’s account during the selected period.
- **History of energy realization** – generates a tabular report in XLS format showing transactions concluded during the selected period, grouped by instrument.

10. Settings

10.1. Application settings

On this screen, you can change the default account and select the quick navigation options to be displayed in the panel at the top of the page. You can select any or all of the available options.



10.2. Change password

This screen contains a password change form, which allows you to replace your current password with a new one.

CHANGE PASSWORD

Your current password

Your current password...

New password

New password...

Confirm password

Confirm password...

Password should include:

field "New password" and "Confirm password" should be same

at least 8 English characters

uppercase and lowercase letters

at least one digit

at least one special character (! , @ , \$, _)

Change password

10.3. Order limits

This screen allows you to set order limits for individual instrument groups, including maximum volumes, maximum buy prices and minimum sell prices.

NOBLE SECURITIES

ORDERS LIMITS

Desktop

Account

X-Stream

SAPRI

XBD

TPNR

Reports

Settings

Application settings

Change password

Orders limits

Two-Factor authentication

My data

Password for documents

Help

ORDERS LIMITS

DAM

RDN

Instrument group	Max buy volume	Max sell volume	Max buy price	Min sell price
RDN				
RDB				
PEAK				
BASE				
OFFPEAK				

v 3.0.0

Contrast

User: Konto Techniczne Last login: 16.07.2026 13:29:13 Client: Noble Securities S.A. (Demo 1) Account: 1

15:35:08 • NS (1) • Quotations

To edit the limits, click the pencil icon on the right-hand side of the relevant market section. You can enable or disable each limit as required.

10.4. Two-step verification

On this screen, you can choose to verify your identity when logging in using a code sent by SMS or email to the mobile phone number or email address registered with NS. Enter the code in the Application to complete the login process.

The screenshot displays the 'TWO-FACTOR AUTHENTICATION' settings page. On the left is a sidebar menu with options like Desktop, Account, X-Stream, SAPRI, XBD, TPNR, Reports, Settings, Application settings, Change password, Orders limits, Two-Factor authentication (selected), My data, Password for documents, and Help. The main content area is divided into two sections: 'Authorization channels' and 'Trusted devices'.

Authorization channels

Select channel(s) for receiving authentication codes and confirm:

☒ E-mail
☐ SMS

Trusted devices

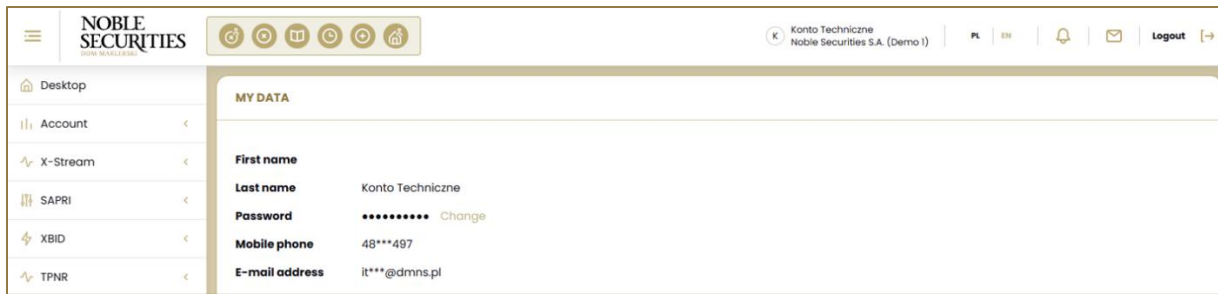
Name	Added	Last login	
ns3demoFF	16.07.2026 11:07:11	16.07.2026 15:46:34	
devChrome	13.07.2026 09:58:50	16.07.2026 13:31:13	
demoFirefoxNs3	14.07.2026 14:16:07	17.07.2026 07:53:06	

The bottom of the page shows a status bar with version 3.0.0, contrast settings, user information (User: Konto Techniczne, Last login: 16.07.2026 16:26:28, Client: Noble Securities S.A. (Demo 1), Account: 1), and a quote (0754:05* NS (1) • Quotations).

You can also view the list of trusted devices, together with the date on which each device was added and the date of the most recent login. Individual devices can be removed from the list. You can have up to five trusted devices.

10.5. My details

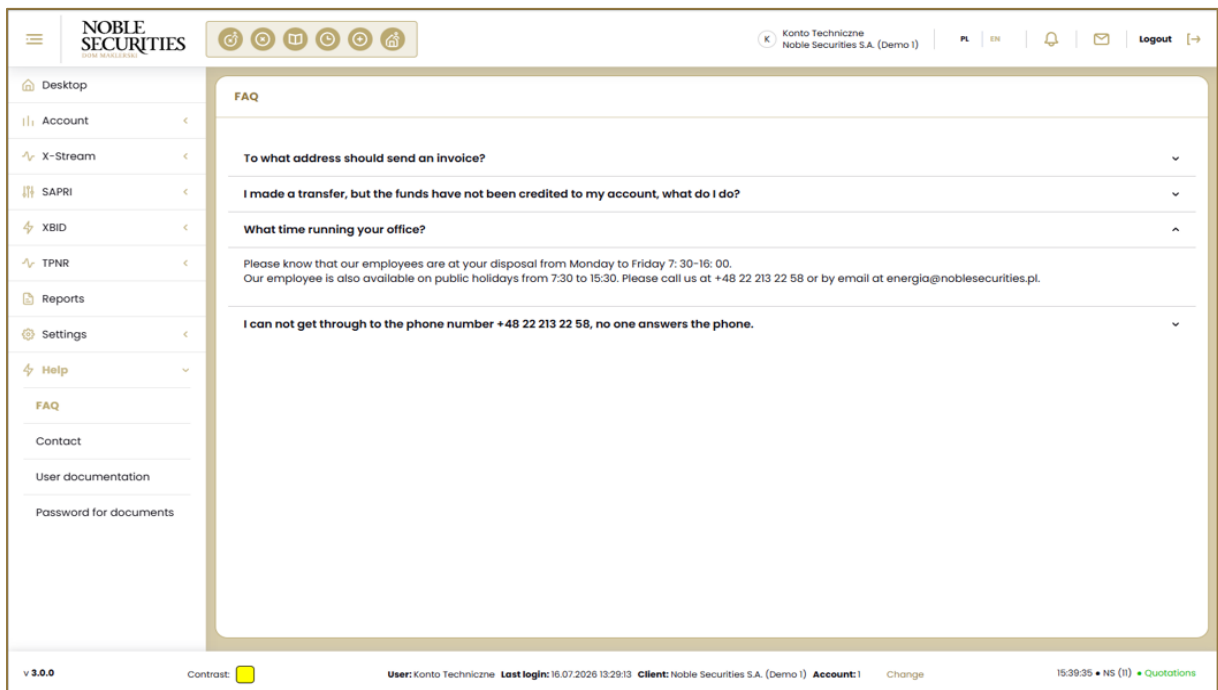
This panel allows you to view the personal details stored in the Application, including your first name, surname, telephone number and email address. Your email address and telephone number are partially masked.



11. Help

11.1. FAQ

This section provides answers to questions frequently asked by Users.



11.2. Contact

This section contains contact details and the bank account number to be used when transferring funds to Clients' accounts with NS.

11.3. User documentation

This section contains:

- the current version of the NSEnergy User Manual,
- the Two-Factor Authentication guide,
- instructions on how to check and change the password required to open documents secured by NS.

All of the above documents can be downloaded in PDF format.

11.4. Document password

Selecting this menu option opens a page where you can check and change the password used to open documents secured by NS.

Important!

There is one document password for each account. If one User changes the password, it will also change for all other Users who have access to that account.

12. Other features

12.1. Downloading data as an XLSX file

Whenever tabular data is accompanied by the  icon, you can download it as an XLSX spreadsheet. Clicking the button starts the download of a file containing the data currently displayed in the table.

12.2. Changing screen settings

Whenever a screen containing tabular data is accompanied by the  icon, an edit mode is available in which you can change:

- the number of records displayed per page,
- which columns are shown.

To save these settings permanently, click “**Save**”.

DESKTOP TABLE SETTINGS

Visible column selection

Instrument

Phase

Buy Vol.

Buy Price

Depth

Sell Price

Sell Vol.

Last Price

Open Price

Max

Min

Volume

O/P

Rate

Fixing Vol.

Exchange Rate

Maximum visible market depth

10

Cancel

Clear

Save

12.3. Quick access bar settings

You can customise the quick access bar by adding or removing icons and changing the order in which they are displayed. To customise the bar, go to Settings ➔ Application settings.

To adjust the sidebar to suit your preferences, click the  button to enter edit mode.

The available icons will then be displayed. You can drag them onto the sidebar shown on the left-hand side. To drag an icon, position the cursor over it, press and hold the left mouse button, then drag the icon onto the bar and drop it in the desired position.

Icons can be removed in the same way: drag the selected icon from the bar on the left to the area labelled “**Other available features**”.

To save the bar settings, click . If you click , you will exit edit mode without saving your changes.

12.4. Changing the language

You can switch the Application language from Polish to English and vice versa by clicking the language button . You can change the language at almost any time while using the Application, except when a modal window is open.

12.5. Logging out

You can log out of the Application by clicking the  button or by closing the browser window.