



BioEx Seller Guide

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1. General information

BioEx platform is an electronic trading system, designed to place orders for buying and selling wood fuel (wood chips). BioEx automatically matches Buy and Sell orders to make the best deal for all parties.

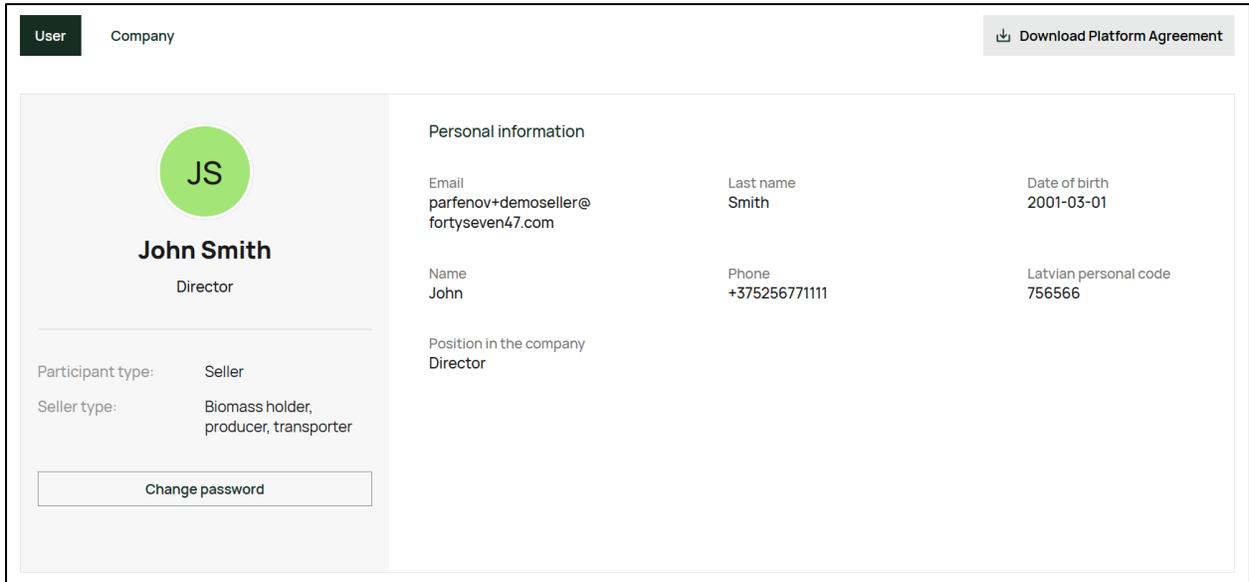
There are 2 types of BioEx users: Buyers and Sellers. Only one role for each company is available.

This user guide describes the main functionality of BioEx from the Seller's point of view.

2. Company profile

Company profile page allows you to see company details and change the account password.

Company profile page contains 2 tabs: User and Company.



The screenshot shows the 'Company' tab selected in the profile page. The page layout includes a top navigation bar with 'User' and 'Company' tabs, and a 'Download Platform Agreement' button. The main content area is divided into a left sidebar and a right main section. The sidebar contains a profile card for John Smith, Director, with a 'Change password' button. The main section displays 'Personal information' with fields for Email, Last name, Date of birth, Name, Phone, and Latvian personal code. Below this, it shows 'Participant type: Seller' and 'Seller type: Biomass holder, producer, transporter'.

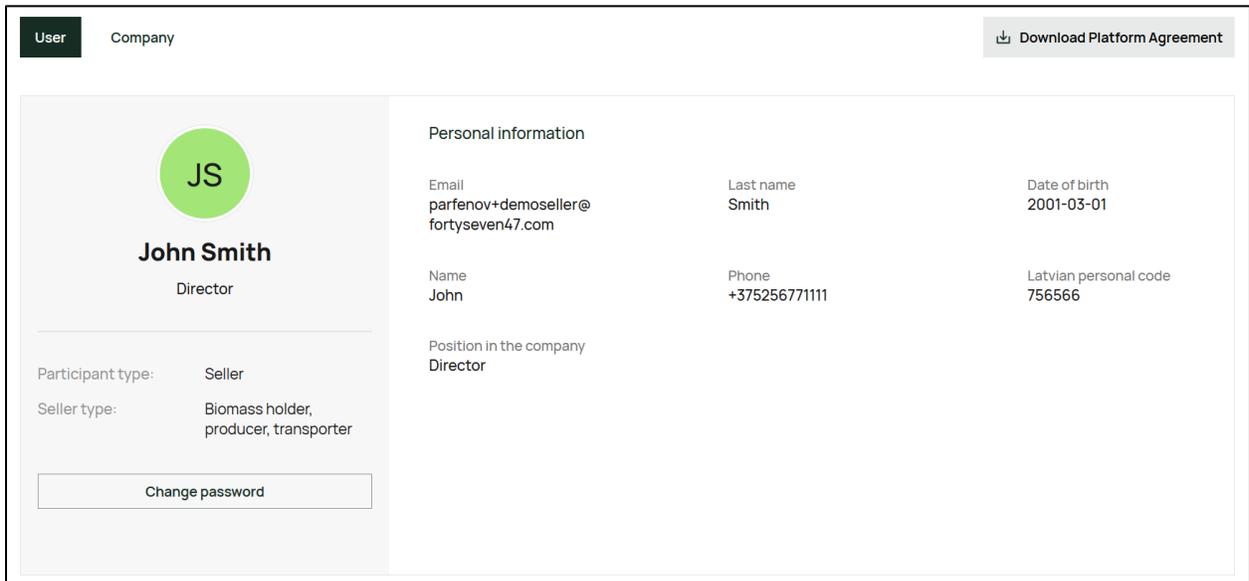
Personal information	
Email	parfenov+demoseller@fortyseven47.com
Last name	Smith
Date of birth	2001-03-01
Name	John
Phone	+375256771111
Latvian personal code	756566

Participant type: Seller
Seller type: Biomass holder, producer, transporter

Change password

2.1 User details

The "User" tab of the profile page contains your data, provided during registration.



The screenshot shows the 'User' tab selected in the profile page. The page layout is identical to the previous screenshot, but the 'User' tab is active. The main content area displays 'Personal information' with fields for Email, Last name, Date of birth, Name, Phone, and Latvian personal code. Below this, it shows 'Participant type: Seller' and 'Seller type: Biomass holder, producer, transporter'.

Personal information	
Email	parfenov+demoseller@fortyseven47.com
Last name	Smith
Date of birth	2001-03-01
Name	John
Phone	+375256771111
Latvian personal code	756566

Participant type: Seller
Seller type: Biomass holder, producer, transporter

Change password

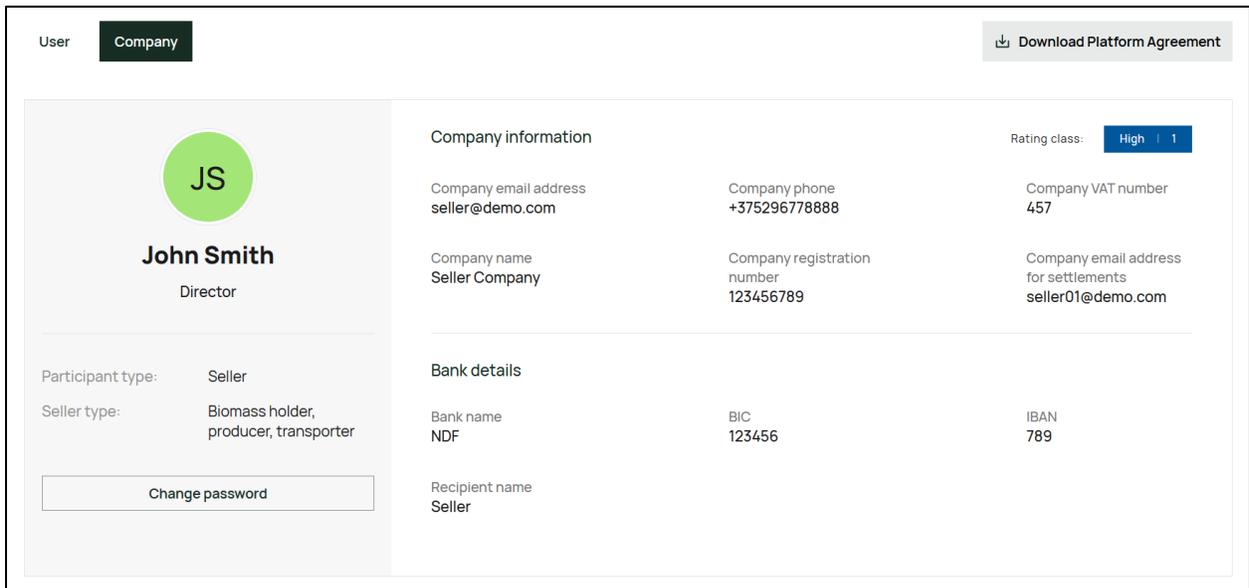
The tab displays your:

- Email;
- Phone;
- Name;
- Last name;
- Position in the company;
- Date of birth;
- Latvian personal code.

If you want to change any of the details described above, please contact the support team (support@bioex.lv).

2.2 Company details

The “Company” tab contains information about your company.



The screenshot shows the 'Company' tab interface. At the top, there are tabs for 'User' and 'Company', with 'Company' selected. A 'Download Platform Agreement' button is in the top right. The main content area is divided into several sections:

- User Profile:** A circular profile picture with initials 'JS', the name 'John Smith', and the title 'Director'. Below this is a 'Change password' button.
- Participant type:** Seller.
- Seller type:** Biomass holder, producer, transporter.
- Company information:**
 - Company email address: seller@demo.com
 - Company phone: +375296778888
 - Company name: Seller Company
 - Company registration number: 123456789
 - Company VAT number: 457
 - Company email address for settlements: seller01@demo.com
- Bank details:**
 - Bank name: NDF
 - BIC: 123456
 - IBAN: 789
 - Recipient name: Seller
- Rating class:** High | 1

The tab displays your company general information, such as:

- Rating class;
- Company email address;
- Company registration number;
- Company phone;
- Company name;
- Company VAT number;
- Company email address for settlements.



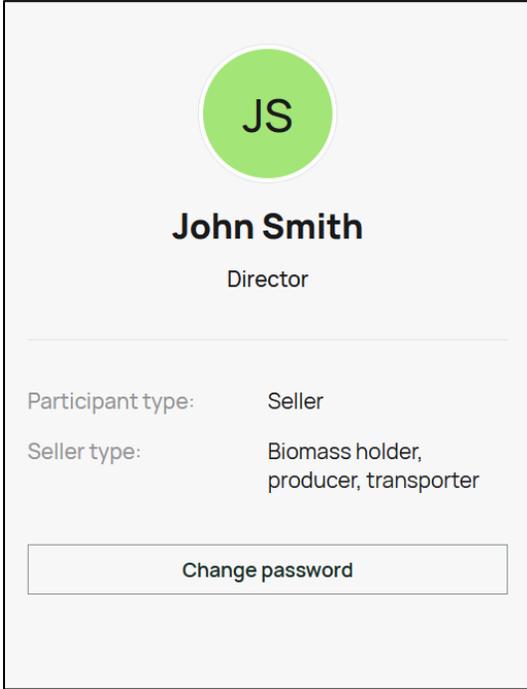
And company bank details:

- Bank name;
- Recipient name;
- BIC;
- IBAN.

If you want to change any of the details described above, please contact the support team (support@bioex.lv).

2.3 Password change

If you want to change your account password, click the “Change password” button.



The image shows a user profile card for John Smith. At the top is a circular profile picture with the initials 'JS' in white on a green background. Below the picture, the name 'John Smith' is displayed in bold, followed by the title 'Director'. A horizontal line separates this information from the account details below. The details include 'Participant type: Seller' and 'Seller type: Biomass holder, producer, transporter'. At the bottom of the card is a rectangular button labeled 'Change password'.

Clicking this button will bring up a pop-up with the password change form.

In this form you should enter:

- Current password – current password of your account;
- New password – new password you want to use for your account;
- Confirm new password – repeat the new password once again to confirm it.

Password requirements are listed below these fields:

- 8-30 characters;
- Upper and lowercase letters;
- Number;
- At least 1 allowed special symbol: !#\$%()*+,-./:;=@[\]^_{}~ ;
- “New password” and “confirm new password” should match.

Change password ×

- 8-30 characters
- Upper and lowercase letters
- Number
- At least 1 allowed special symbol: !#\$%()*+,-./:;=@[\]^_{}~
- Passwords match

When all fields are filled, click the “Save password” button to confirm the password change. After that, a pop-up window will open in which you must enter the code, which will come to your phone.

Confirm password change ×

Please enter verification code that has been sent to your phone

Please note that you will be logged out and will have to sign in again, using the new password.

If you want to close the pop-up without saving the changes, click the “Cancel” button.

3. Security funds

To trade on the BioEx platform, you have to provide guarantees. Provided guarantees determine the total value of orders you can create.

Possible guarantees are:

- Banking deposit;
- Bank guarantee;
- Insurance.

Security funds values are indicated in the header of the page:

- Total funds – indicates your full security fund;
- Available funds – indicates your currently available security funds. Available = total - sum reserved for created orders.

	AVAILABLE FUNDS €500,000.0	TOTAL FUNDS €500,000.0	INCREASE	i
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Initially, you don't have any funds and can't place orders.

Part of your security funds is reserved when an order is created and remains reserved until the order is closed, unmatched or cancelled.

Amount of the security funds reserved for each order depends on your rating class; see Platform Code for more details.

3.1 Security funds increase

To increase your security funds, you have to create an increase request. You can do it by clicking the "Increase" button in the header of the page, next to the limit's values, or on the "Security funds" page.

Security funds page allows you to create and review security funds increase requests.

Security funds						Increase
Date created	Valid from	Valid until	Status	Security funds type	€Sum	
9 December 2022	-	-	Verification	Banking deposit	0.0	Cancel
9 December 2022	20 February 2023	21 February 2023	Expired	Insurance guarantee	1.0	
9 December 2022	-	-	Verification	Banking deposit	0.0	Cancel
28 November 2022	28 November 2022	30 November 2028	Approved	Bank guarantee	500,000.0	
31 October 2022	-	-	Cancelled	Bank guarantee	0.0	

The page contains a table with information about active and previously processed requests. The table contains the following columns:

- Date created - indicates date of request creation;
- Valid from – indicates date starting from which security fund becomes valid;
- Valid until – indicates security fund expiration date;
- Status - indicates request status. Possible statuses are:
 - Verification - request is currently processed by the operator;
 - Approved - request is approved by the operator, and its sum is added to the total funds value;
 - Rejected - request is rejected by the operator, and its sum is NOT added to the total funds value;
 - Cancelled - request was created but cancelled before verification;
 - Expired – provided guarantee is expired, and its sum is NOT added to total funds value.
- Security funds type - there are 3 possible types:
 - Banking deposit;
 - Bank guarantee;
 - Insurance guarantee.
- Sum - sum that will be added to the maximum limit value.

Requests with the “Verification” status also have the “Cancel” button in the row, allowing canceling this request before verification.

Above the table, there is the “Increase” button. Clicking it opens the security funds increase request form.

Security funds increase request

Security funds - Security funds increase request

Please create a security fund increase request. After the check procedure is completed, you will be notified about increase request results. The amount of your security funds depends on the risk class assigned to you, see the Trading Platform Code for more details.

Request type ▼

Create request

First, you have to select the request type from the drop-down list. Further flow depends on the selected type.

3.2 Banking deposit request type

Banking deposit request type means that you should transfer an amount of money, equal to the desired funds increase value, to the banking account of the BioEx platform. The amount of your security funds depends on the risk class assigned to you, see the Trading Platform codex for more details.

Your funds will be increased when the BioEx operator receives the payment confirmation and verifies your request.

If you select the “Banking deposit” type, just click the “Create request” button to proceed. You will see information about the request and platform banking details:

- Request type;
- Bank name;
- BIC/SWIFT code;
- IBAN;
- Organization;
- Payment details – Deposit for the increase of security funds;

- Payment ref. – Reference code is unique for each request, it will help the operator to identify the request. You must indicate this reference code in the payment details while making the payment through your bank. **Please don't forget to indicate the reference code.**

Security funds increase request

Security funds - Security funds increase request

Please perform a money transfer to the following banking account. Do not forget to fill in a reference number in your payment details.

Request type	Banking deposit
Payee	
Bank name	AS "Industra Bank"
BIC/SWIFT code	MULTLV2X
IBAN	LV94MULT1010B05320030
Organization	SIA "BioEx"
Payment details	Deposit for the upgrade of security funds.
Payment ref.	21F91EAO

Confirm

When you've copied the banking details and reference code, click the "Confirm" button. You will see the success message. Click "OK" to return to the Guarantee limits page.

If you want to see banking details for the payment or the reference code once more, find your request in the table on the Security funds page and click the creation date in the corresponding row.

Security funds Increase

Date created	Valid from	Valid until	Status	Security funds type	€Sum	
15 March 2023	-	-	Verification	Banking deposit	0.0	Cancel
9 December 2022	-	-	Verification	Banking deposit	0.0	Cancel
9 December 2022	20 February 2023	21 February 2023	Expired	Insurance guarantee	1.0	

You will see a pop-up with the request details.

Security funds request view ×

Request type Banking deposit

Payee

Bank name AS "Industra Bank"

BIC/SWIFT code MULTLV2X

IBAN LV94MULT1010B05320030

Organization SIA "BioEx"

Payment details Deposit for the upgrade of
security funds.

Payment ref. 21F91EA0

3.3 Banking/Insurance guarantee request types

Banking guarantee or insurance guarantee request types means that, to increase your security funds by a specific amount, you must provide a document from your bank or insurance company, confirming that you can perform deals for that amount.

When you select the Banking guarantee or Insurance guarantee request type, a second field "Guarantee document" is displayed. Upload the confirmation document from the PC by clicking the "Browse" button. Documents can be uploaded in PDF, PNG, EDOC and JPG formats.

Security funds increase request

Security funds - Security funds increase request

Please create a security fund increase request. After the check procedure is completed, you will be notified about increase request results. The amount of your security funds depends on the risk class assigned to you, see the Trading Platform Code for more details.

Request type
Bank guarantee

Browse

Create request

When the document is uploaded, click the “Create request” button. Your request will be created.

Your security funds will be increased when the BioEx operator checks the provided document and verifies your request.

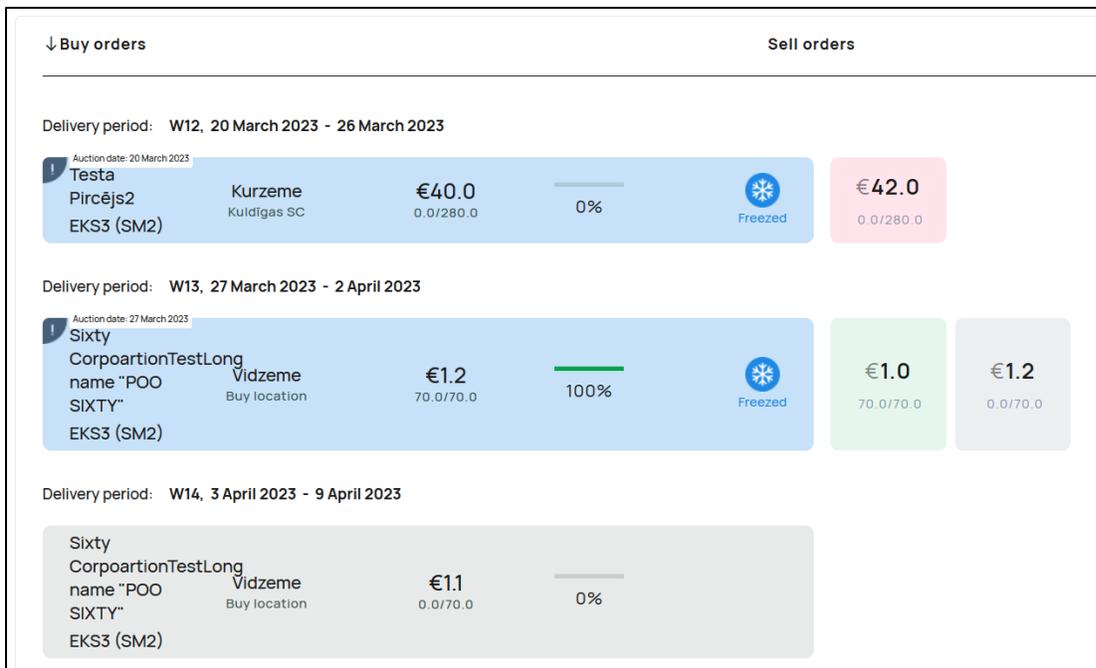
4. Trading

Trading is the main functionality of the BioEx platform. During the trading process, Buyers can create their order to buy biomass, and Sellers can respond by creating their orders to sell biomass.

Trading is divided into trading periods that usually last for 1 week, starting and ending on Monday, 16:00 (UTC+2). A detailed description of the trading periods is provided in section 4.1 of this guide.

Trading process takes place on the Trading page of the platform.

Buy orders are located in the left part of the page and grouped by delivery period, aligned vertically. Sell orders are located in the right part of the page, aligned horizontally in the rows of the corresponding Buy orders.



The screenshot shows the trading interface with two main sections: 'Buy orders' and 'Sell orders'. The interface is organized by delivery periods.

Delivery period: W12, 20 March 2023 - 26 March 2023

Testa Pircējs2 EKS3 (SM2)	Kurzeme Kuldīgas SC	€40.0 0.0/280.0	0%	Freezed	€42.0 0.0/280.0
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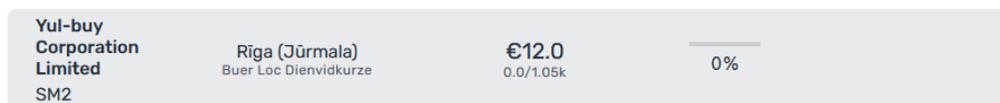
Delivery period: W13, 27 March 2023 - 2 April 2023

Sixty CorpoartionTestLong name "POO SIXTY" EKS3 (SM2)	Vidzeme Buy location	€1.2 70.0/70.0	100%	Freezed	€1.0 70.0/70.0	€1.2 0.0/70.0
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Delivery period: W14, 3 April 2023 - 9 April 2023

Sixty CorpoartionTestLong name "POO SIXTY" EKS3 (SM2)	Vidzeme Buy location	€1.1 0.0/70.0	0%		
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Order boxes can look as follows:



Yul-buy Corporation Limited SM2	Rīga (Jūrmala) Buer Loc Dienvidkurze	€12.0 0.0/1.05k	0%
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- Buy order.

Buy order box displays (from left to right, from top to bottom):

- Buyer company name (e.g. Yul-buy Corporation Limited);
- Biomass type (e.g. SM1W);

- Buyer region (e.g. Riga);
- Buyer location;
- Order price (e.g. €25);
- Matched amount/Order amount, MWh (e.g. 0.0/1.05k);
- Order matching percentage;
- The “Sell” button, allowing you to apply Sell order to this Buy order. Note that you can create only one Sell order for each Buy order.

The “!” icon in the upper left corner of the order box means that order has some constraints. You can move the mouse cursor to the icon to see the constraints text.

Demo Buyer Company SM1	Rīga (Jūrmala) Power plant 1	€25.0 2.45k/5.25k	46.67%	PROCESSING
----------------------------------	---------------------------------	----------------------	--------	-------------------

- Buy order at the end of the trading period (from the end of the auction phase to the end of the trading period). There is an order status in the right part of the box. For more information about order statuses, see section 5.1 of this guide.

Auction date: 3 April 2023				
Testa Pircējs2 EKS3 (SM2)	Kurzeme Kuldīgas SC	€41.0 0.0/5.39k	0%	Freezed

- Buy order with an extended trading period. Such orders available for Sell orders applying, but will be actually traded at the date, indicated in the “Auction date” label.

MY ORDER	
€25.0	
1.05k/1.05k	

- Sell order that is currently matched to the Buy order. Sell order box displays:

- Order price (e.g. €25);
- Matched amount/Order amount, MWh (e.g. 1.05k/1.05k);
- Order edit button (for your orders only).

€40.5
0.0/420.0

- Sell order that is currently not matched to the Buy order as its price is higher than the Buy order price or the offered price of other Sell orders.

€22.4

0.0/700.0

- Sell order that is currently not matched to the Buy order as its price is equal to the best offered price of other Sell orders, but this order was created later than others.

€38.0

420.0/420.0

- Matched Sell order after the auction ends.

€40.5

0.0/420.0

- Not matched Sell order when the auction ends.

4.1 Trading periods

Every order you've created will be linked to a certain trading period. A trading period usually lasts for 1 week, starting and ending on Monday, 16:00 (UTC+2).

Trading period can be divided into several phases (time is indicated for the Riga time zone, UTC +2):

- Active – the longest phase of the trading period. Usually starts at 16:00 on Monday (or the first working day of the week) and lasts until next Monday, 10:00. During this phase you can place, edit and cancel orders.
- Auction preparation – lasts for 1 hour (Monday 10:00 – Monday 11:00). During this phase you can't place, cancel or edit orders. Sellers still can place, edit and cancel orders.
- Auction – the auction stage starts at 11:00 and lasts for 2 minutes. During this stage, you may not cancel your current orders and/or place any new ones, but sellers may reduce the selling prices of their placed orders for an unlimited number of times. If a reduced price of an order to sell affects matching results, the auction stage for that specific order is extended for a new period of 2 minutes from the moment the reduced price is entered. The auction stage can be extended for an unlimited number of times, but not longer than until 12:00.
- Buy orders decision – lasts for 1 hour (Monday 12:00 – Monday 13:00). This phase is for Buyers. If your order is not fully covered by Sell orders as the Sell



orders have a price higher than your Buy order price, you can increase the price of your order to get more Sell orders matched. Beginning with this stage from 12:00 to 14:00, you may direct any complaints or questions to BioEx Support by email.

- Disputes resolution – lasts for 3 hours (Monday 13:00 – Monday 16:00). For the remaining 2 hours, until 16:00, the support team will process the complaints and resolve them. When this phase is over, you will receive an email with final results of the trading and a new trading period will start.

4.2 Orders matching

Sell orders are matched to Buy orders in accordance with certain rules. Orders are matched considering firstly the maximum profit for the Buyer and secondly the Sell order placing time. This means:

- Only Sell orders with price \leq Buy order price are matched;
- Sell order with a lower price will be matched, even if it was placed later than an order with greater price;
- If there are 2 Sell orders with identical price, the one that was placed earlier will be matched;
- Amount of a Sell order can be taken partly if more profitable Sell orders cover some part of the amount of the Buy order;
- If a long term buy order is not fully covered, a sell order is split in the same proportions as a buy order by month.

4.3 Order creation

To create a Sell order, click the “Sell” button next to the Buy order you want to apply. The order creation form is a pop-up.

New sell order
✕

Buy order information

ID	Buyer
ORD23028759	Parfenon
Delivery period	Duration
Y03(13W), 4 September 2023 - 3 December 2023	Long-term
Price per MWh	Biomass product
€85.0	EKS4 (SM3 D)
Region	Projected order sum
Riga	€642,600.0
Address	Minimum amount, MWh
X2	2,100.0
	Maximum amount, MWh
	7,210.0

Your offer

Price per MWh
 € 85.0



Projected order sum:
 €612,850.0

Amount

- 350

- 70

7,210.0

+ 70

+ 350

Close form

Create

Sell order creation form includes the following fields:

- Buy order information:
 - ID;
 - Delivery period;
 - Price per MWh;
 - Region;
 - Address;
 - Buyer company;
 - Duration;
 - Amount, MWh;
 - Biomass product;

- Projected order sum, Eur;
- Minimum sales order amount;
- Maximum sales order amount.
- Price per MWh - unit price in Eur. Minimum increment is 0.1 Eur. Max price - 1000 EUR;
- Amount - entered by clicking “+70”, “+350”, “-70” and “-350” buttons. Order amount can only be entered by a set increment. The increment depends on the total amount of the order:
 - Total amount up to 700 MWh: you must cover the whole Buy order, so the amount is pre-filled with Buy order amount and can't be changed;
 - Total amount exceeding 700 MWh: you can set an order amount by an increment of 350 MWh or 70 MWh, but not lower than 350 MWh; So possible values are: 350, 420, 490, 560, 630, 700, 770 and further by an increment of 350 or 70. Additional rules if this is a non-standard order:
 - If the Minimum Sell order amount is set, the -70 and -350 buttons will be blocked if the entered amount is lower than the minimum amount;
 - If the Maximum Sell order amount is set, the +70 and +350 buttons will be blocked if the entered amount is higher than the maximum amount.
- Calculator - icon, opens Biomass calculator page in a new tab;
- “Create” button confirms order creation;
- “Close form” button - cancels order creation.

4.4 Order edit

During the Active and Auction phases of the trading period, you can change the price of your active orders. You can also cancel your active orders during the Active and Auction preparation phases.

For this, you have to find your order on the Trading view and click the  icon. You will see the pop-up with the order edit form in the right part of the screen.

✕

Buyer offer

Demo Buyer Company

Riga, First Street, 16

W12_23_2023.03.20-2023.03.26

EKS3 (SM2)

#ORD23025154

€25

We sell

Price per MWh

-

25.0

+

Sell amount: 1470MWh

Total: €36,750.0

Apply

Cancel sale order

In this form, you can change your order Price per MWh (note that during the Auction phase you can only lower the price). To save changes, click the “Apply” button.

If you want to cancel the order, click the “Cancel order” button. You will see the confirmation pop-up. Click the “Cancel order” in the confirmation pop-up to approve the cancellation, or click the “No” button to leave the order active.

5. Company orders page

To see full history and detailed information on your orders, visit the “Company orders” page.

No.	Status	Biomass product	Order amount, MWh	Matched amount, MWh	Price, EUR/MWh	Projected total sum, EUR	Duration	Auction date
ORD23025252	Active	EKS3 (SM2)	1470	$\frac{0}{1470}$ 0%	25.0	36,750.0	Week	
ORD2319769	Execution	EKS2 (SM1 W)	700	$\frac{700}{700}$ 100%	1.0	700.0	Month	
ORD2219768	Execution	EKS1 (SM1)	1400	$\frac{1400}{1400}$ 100%	29.0	40,600.0	Week	
ORD2219767	Unmatched	EKS2 (SM1 W)	770	$\frac{0}{770}$ 0%	2.4	1,848.0	Week	

Showing 1 - 4 of 4 results

1

Rows per page 10 < >

No.	Status	Biomass product	Order amount, MWh	Matched amount, MWh	Price, EUR/MWh	Projected total sum, EUR	Duration	Auction date
ORD23026904	Cancelled	EKS3 (SM2)	1050	$\frac{0}{1050}$ 0%	45.0	47,250.0	Month	
ORD23026903	Cancelled	EKS1 (SM1)	1750	$\frac{0}{1750}$ 0%	50.3	88,025.0	Month	
ORD23026902	Cancelled	EKS1 (SM1)	770	$\frac{0}{770}$ 0%	50.0	38,500.0	Month	

Showing 1 - 3 of 3 results

1

Rows per page 10 < >

Orders are listed in the form of table with the following columns:

- No. - order ID. Order ID is clickable. Clicking it opens order details;
- Status – status of the order. For more information about possible order statuses see section 5.1 of this guide;
- Biomass product - possible biomass products:
 - EKS1 (SM1);
 - EKS2 (SM1 W);
 - EKS3 (SM2);
 - EKS4 (SM3 D);
 - EKS5 (SM3).

- Order amount, MWh - indicates total order amount in MWh;
- Matched amount, MWh - indicates the amount that is matched for the current moment;
- Price, EUR/MWh - unit price of the order;
- Projected total sum, EUR - indicates the full price of the order in EUR, calculated as (Order amount x Price);
- Duration - duration of the delivery:
 - Week;
 - Month;
 - Long-term.

5.1 Order lifecycle

Every order has a certain way from the creation to final closing. This way is described by order statuses. Possible statuses are:

- Active;
- Cancelled;
- Auction;
- Waiting for decision;
- Unmatched;
- Processing;
- Execution;
- Closed.

Active – this status is given to the orders, traded in the current trading period. The order will be with this status from the moment of creation and until the start of the auction unless you cancel the order or ask the operator to delete it. Orders in this status can be edited.

Cancelled – if you want to stop trading on any order you can cancel it and its status will be changed to “Cancelled”. Orders with this status are not active and not displayed on Trading view. Please note that cancelled orders can’t be activated again, instead you will have to create a new order.



Auction – when the Auction phase of the trading period starts, active orders change their statuses to “Auction”. Buy orders in this status can’t be edited or cancelled.

Waiting for decision – if your order is not fully covered by Sell orders as the Sell orders have a price, higher than your Buy order price, during the “Buy orders decision” phase of the trading period its status will be changed to “Waiting for decision”. In this status, Buyers can increase the price of your order to get some more Sell orders matched. You can’t do anything with the Sell orders in this status.

Unmatched – if your order is not matched to Buy order by the end of “Auction” or “Buy orders decision” phase, it will be assigned the “Unmatched” status.

Processing – your order status will be changed to “Processing” during the “Disputes resolution” phase of the trading period. You can’t do anything with the order in this status.

Execution – if your order is fully or partly matched during the trading period, after the “Disputes resolution” phase it will be transferred to the “Execution” status. This means that you can find the contacts of the matched Sellers in the “Delivery” tab of the order details and start the delivery. You also must submit quality reports for this order every delivery week.

Closed – when the delivery for this order is over and quality reports are approved, you must contact the BioEx operator and ask to close your order. When operator closes the order, its status is changed to “Closed”. When your order is closed, you guarantee limit reserved for this order is released and can be used for new orders.

5.2 Order details

To see order details, click the order ID in the table on the “Company orders” page. You will see the order details screen.

Order details are divided into 3 tabs:

- General;
- Quality reports (see section 6 of this guide);
- Delivery.

General	Quality reports	Delivery
No.	ORD2319769	
Status	Execution	
Biomass product	EKS2 (SM1 W)	
Delivery location	Riga	
Duration	Month	
Delivery period	M01(04W), 2 January 2023 - 29 January 2023	
Order amount, MWh	700.0	
Matched amount, MWh	700.0	
Price, EUR/MWh	1.0	
Matched total sum, EUR	700.0	
Projected total sum, EUR	700.0	

5.2.1 General tab

The “General” tab of the order details screen contains:

- No. – order ID;
- Status – order status (see section 5.1 of this guide);
- Biomass type;
- Buyer location;
- Duration;
- Order amount, MWh;
- Matched amount, MWh - amount matched for the current moment;
- Price, EUR/MWh;
- Matched total sum, EUR - calculated as Matched amount * Price;

- Projected total sum, EUR - indicates the full price of the order in EUR, calculated as (Order amount x Price);
- The “Cancel order” button - for orders with “Active” status. Changes order status to “Cancelled”, removes order from Trading view and matching.

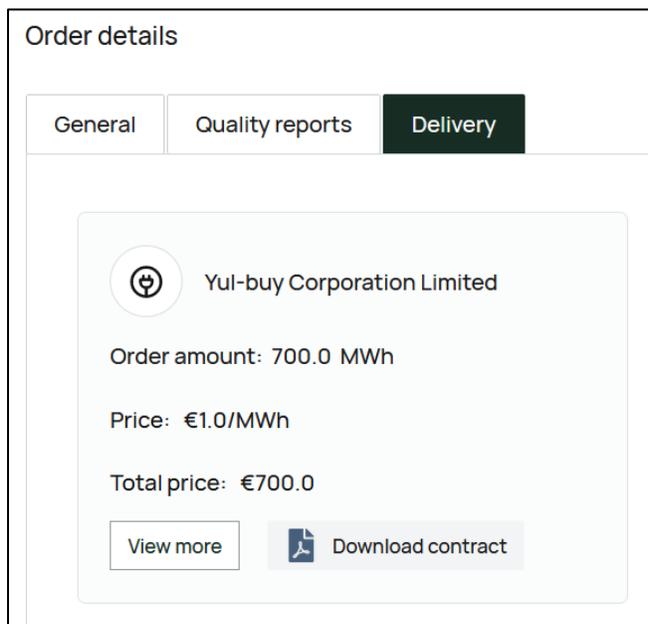
5.2.2 Delivery tab

The “Delivery” tab is only for orders with “Execution” and “Closed” status. It contains information about the matched Buy order and the contract for this order, including contact information of the Buyer.

Buy order plate displays:

- Buyer name;
- Order amount, MWh;
- Price, EUR/MWh;
- Total price, EUR.

To view contract details, click the “View more” button on the corresponding Buy order plate. To download a PDF contract with the specific Buyer, click the “Download contract” button.

A screenshot of a web interface titled "Order details". At the top, there are three tabs: "General", "Quality reports", and "Delivery", with "Delivery" being the active tab. Below the tabs, there is a card for a buyer named "Yul-buy Corporation Limited". The card displays the following information: "Order amount: 700.0 MWh", "Price: €1.0/MWh", and "Total price: €700.0". At the bottom of the card, there are two buttons: "View more" and "Download contract".

Order details

General Quality reports **Delivery**

 Yul-buy Corporation Limited

Order amount: 700.0 MWh

Price: €1.0/MWh

Total price: €700.0

[View more](#) [Download contract](#)

6. Quality reports

Quality reports must be submitted by the Buyer for each order for every week of delivery. The report contains information on main biomass parameters affecting the total energy value of the fuel and the final price.

Every submitted quality report has to be checked and approved or rejected by the Seller. When all reports for the order are approved, the BioEx operator can close your order.

You can review and approve/reject quality reports for the order in the “Quality reports” tab of the order details. The tab becomes available only if the order is in the status "Execution" or "Closed".

Order details

General **Quality reports** Delivery

Buyer: Testa Pircējs2
Delivery location: Bauskas iela 22

Report ID Report date	Delivery week	Delivered amount of thermal energy, MWh	Reported total sum, Eur	Status	Approve till	
REFVSDEZYF 9 Feb, 2023	W07_23_2023.02.13-2023.02.19	0.000	0.00	Pending	-	Actions ▼

Showing 1 - 1 of 1 results

1

Rows per page 10 ▼ < >

Reports list is presented in the table with the following columns:

- Report ID/Report date – indicates the number of the report and the date of report submission. This field is clickable, clicking it opens the report details;
- Delivery week – indicates the week for which the data in the report is provided;
- Delivered amount of thermal energy, MWh – total amount of thermal energy for the biomass amount indicated in the report, calculated according to the provided biomass parameters;
- Reported total sum, Eur – total sum for the biomass amount indicated in the report, adjusted according to the provided biomass parameters;
- Status – status of the report. There are 3 possible statuses:

- Pending – report is submitted but not yet approved or rejected by the Seller;
- Confirmed – report is checked and approved by the Seller;
- Rejected – report is checked and rejected by the Seller. In this case, The Buyer has to submit new report for this week.
- Approve till – You must check and approve or reject the report by this date. If the report is not checked until this date, the BioEx operator will receive a notification and will be able to approve your report on your behalf.
- The “Actions” drop-down list contains three options:
 - Download quality analysis (if any was uploaded during report submission);
 - Export report in xlsx format.

6.1 Quality report details

Clicking the report ID in the “Quality reports” tab opens the report details.

Quality report for week: W11_23_2023.03.13-2023.03.19

Report ID: ORD23024707-37-4763-5

Delivery date, time	Biomass weight, kg	Delivered amount of thermal energy, MWh	Reduced price, EUR/MWh	Actual total SUM, EUR
16 Mar, 2023 14:00	25,000.00	102.200	1.51	154.32
16 Mar, 2023 14:00	25,000.00	102.200	1.51	154.32
16 Mar, 2023 14:00	25,000.00	102.200	1.51	154.32
16 Mar, 2023 14:00	25,000.00	102.200	1.51	154.32
	100,000.00	408.800	1.51	617.28

Report details page contains a table with short report data for each delivered truck, indicated during report submission:

- Delivery date, time;
- Biomass weight (for report by weight) or Biomass volume (for report by volume);
- Delivered amount of thermal energy, MWh;

- Reduced price, EUR/MWh;
- Actual total SUM, EUR.

Clicking “Delivery date” in any row opens additional data for this entry, including:

- System ID - ID of the particular entry, generated automatically;
- CMR №;
- Truck/trailer reg. №;
- Biomass volume, m³ (for report by weight);
- Biomass weight, kg (for report by volume);
- Wood density, kg/m³;
- Moisture content, %;
- The lowest heating value, MJ/kg;
- Ash content, %;
- The calorific value of the fuel, MWh/t;
- Amount of energy per cubic meter, MWh/m³;
- Contract price, EUR/MWh;
- Price reduction moisture, EUR/;
- Price reduction ash content, EUR/MWh.

Delivery date, time	Biomass weight, kg	Delivered amount of thermal energy, MWh	Reduced price, EUR/MWh	Actual total SUM, EUR	
16 Mar, 2023 14:00	25,000.00	102.200	1.51	154.32	System ID ORD23024707-37-4763-5/0
16 Mar, 2023 14:00	25,000.00	102.200	1.51	154.32	CMR No. 123213
16 Mar, 2023 14:00	25,000.00	102.200	1.51	154.32	Truck/trailer reg. no. Q24124RF1
16 Mar, 2023 14:00	25,000.00	102.200	1.51	154.32	Biomass volume m3 91,000.00
	100,000.00	408.800	1.51	617.28	Wood density kg/m ³ 0.27
					Moisture content % 19.0
					The lowest heating value MJ/kg 19.3
					Ash content % 2.9
					The calorific value of the fuel MWh/t 4.088
					Amount of energy per cubic meter MWh/m ³ 0.00
					Contract price EUR/MWh 1.80
					Price reduction moisture EUR/MWh -0.29
					Price reduction ash content EUR/MWh 0.00

Above the table there are two buttons:

- Export report – exports this report in xlsx format;



- Download quality analysis – if any was uploaded during report submission.

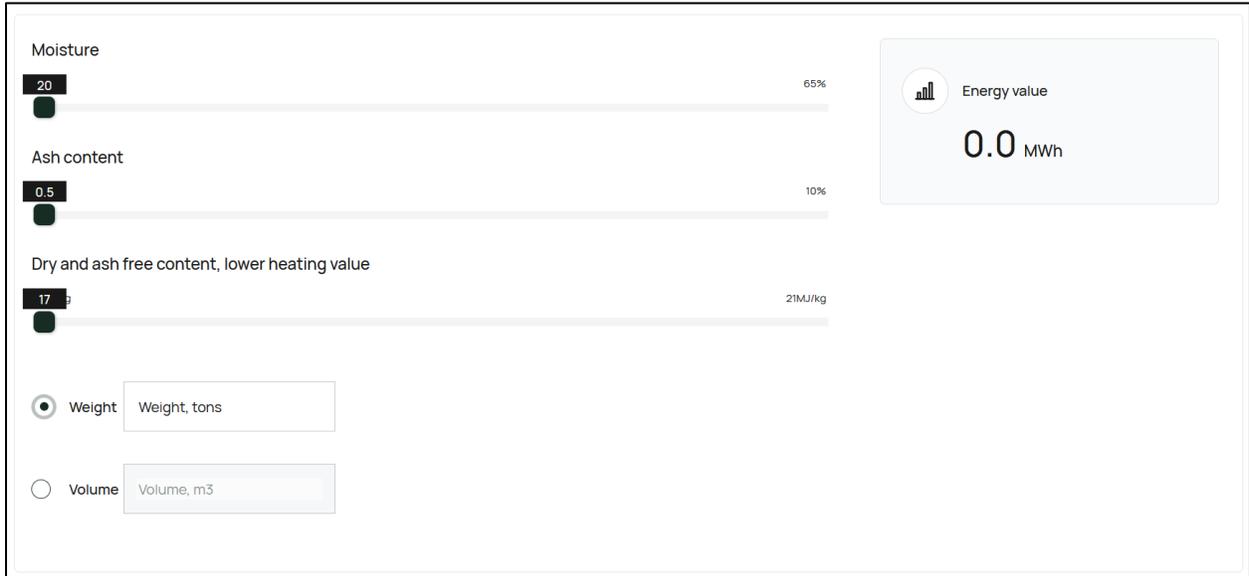
For the reports with the “Pending” status, there are “Approve” and “Reject” buttons below the table.

If you’ve checked the report and you agree with the provided data, click the “Approve” button. Report status will be changed to “Confirmed”.

If you disagree with the provided data, click the “Reject” button. Report status will be changed to “Rejected”. In this case, please contact the Buyer to solve the issues, then wait until the Buyer submits a new quality report for this week.

7. Biomass calculator

Biomass calculator allows calculating energy value of the biomass by the set of parameters.

A screenshot of a web-based biomass calculator interface. It features three horizontal sliders for input parameters: Moisture (set to 20, with a 65% scale), Ash content (set to 0.5, with a 10% scale), and Dry and ash free content, lower heating value (set to 17, with a 21MJ/kg scale). Below the sliders are two radio button options: "Weight" (selected) with a text input field containing "Weight, tons", and "Volume" with a text input field containing "Volume, m3". On the right side, a light gray box displays the calculated "Energy value" as "0.0 MWh".

Parameter	Value	Scale
Moisture	20	65%
Ash content	0.5	10%
Dry and ash free content, lower heating value	17	21MJ/kg

Calculator has 2 modes:

- Calculation by weight;
- Calculation by volume.

Mode is selected in the bottom part of the page.

For calculation by weight:

- Set up Moisture, % (using slider);
- Set up Ash content, % (using slider);
- Set up Dry and ash free content, lower heating value, MJ/kg (using slider);
- Enter weight, tons.

For calculation by volume:

- Set up Moisture, % (using slider);
- Set up Ash content, % (using slider);
- Set up Dry and ash free content, lower heating value, MJ/kg (using slider);
- Set up Wood density, kg/m^3 ;
- Enter volume, m^3 .



Energy value is displayed in the right part of the page and it will be automatically calculated when you enter volume or weight and recalculated when you move any slider.