

## **Fee Schedule of KELER CCP Ltd.**

Board of Directors approval:

Order 4/2018/10. on 18 July 2018.

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by the MNB:

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The English version is for informal use only.  
Only the Hungarian version is legally binding.

## Principles

KELER CCP Central Counterparty Ltd. (hereinafter: KELER CCP) publishes in this Fee Schedule the fees to be paid for the services offered, the preferences that can be offered and the terms of preferences, and the provisions on fee payment and invoicing.

KELER CCP applies the following pricing principles related to its services; deviation from these principles is not possible:

- The fees of services cover the actual costs of services and support the internal operation of KELER CCP, and allow the development of existing and new services in order to ensure that KELER CCP operates as a reliable, client-focused infrastructure that adjusts flexibly to the changes in the environment.
- The fees are in line with the prevailing regulatory environment.
- In addition to ensuring prudent and regulated operation, KELER CCP makes efforts to meet the profitability expectations of shareholders on an ongoing basis.
- KELER CCP forms services in cooperation with Clients, in line with their needs, and gives Clients the right to give their views on the applicable fees.
- It applies a transparent system of preferences, promoting the enforcement of business and market requirements.
- The Board of Directors is competent to approve the Fee Schedule. The Chief Executive Officer of KELER CCP makes a proposal to the Board of Directors to change fees due to the launch of a new service or based on periodic reviews related to existing services.
- When the prices of new services are determined, KELER CCP takes into account, if possible, the publicly known price level in competitive markets and the international markets.

KELER CCP may offer fee reductions to Clients in the following cases:

- Based on the absolute volume of the service(s) used and transactions, in the form of discounts or rebates. The related details are stated in the relevant chapters.
- If KELER CCP introduces new or modified service, the Client participating in the creation, implementation or testing of the service, and/or contracting for the service can be offered fix period preference ("pilot Client" preference).

If an intermediary (e.g. account manager) is used related to a service offered by KELER CCP to a Client, KELER CCP automatically transfers to the Client the additional costs invoiced to KELER CCP by the intermediary in addition to the cost of the transaction (e.g. interest, fees of items requiring special treatment, etc.).

## General provisions

Fees are payable based on the fee invoice issued by KELER CCP until the 5th business day after the subject month.

The fee invoice contains the services provided by KELER CCP in the subject month concerned, including late fees and the part of the default basic fee, the derivative default basic fee and the securities default basic fee due to KELER CCP.

If fees stated by the foreign service providers in foreign currency are passed to the Client, unless otherwise agreed, KELER CCP issues the fee invoice in the original currency. If the invoice is issued in Forint in line with a separate agreement, the MNB foreign exchange rate valid on the date of invoice issuance is used to make the conversion.

The Client has the possibility to request and pay the invoice in foreign currency for fees stated in Forint in this Fee Schedule. The Client is eligible for this service if it concludes with KELER CCP the agreement to this effect until the 15th day of the subject month. For conversion KELER CCP uses the MNB foreign exchange rate valid on the date of invoice issuance.

Unless otherwise agreed with the customer, KELER CCP issues electronic invoice on payable fees to the customer. KELER CCP will send the electronic invoice with increased security signature to the customer in the form of a link in e-mail.

After issuing the invoice, based on authorization by the Client, KELER CCP charges payable fees to the payment account of the Client. If the Client does not have a payment account, fee payment is by transfer, payment date is the 10<sup>th</sup> business day from the date of invoice issue.

Service fees listed in this Fee Schedule are exempt from VAT. Fees where VAT is shown separately are exceptions to this provision.

When determining fees one basis point (bp) equals one hundredth of one percentage point (1 bp = 0.01%).

### **Default interest**

In case of any delay in payment of fees specified in this Fee Schedule and of any receivables of KELER CCP under any title pursuant to the General Business Rules, KELER CCP will charge default interest. The default interest rate is twofold of the prevailing Magyar Nemzeti Bank (MNB) base rate, however minimum 5% p.a.

## Clearing membership

1.	Clearing membership service	Fee	KELER CCP General Business Rules	Code
	Financial market General clearing member <sup>1</sup>	HUF 200,000 / month / market	3.2.1./3.2.2.	K77/K80
	Financial market Individual clearing member <sup>2</sup>	HUF 150,000 / month / market	3.2.1./3.2.2.	K77/K80
	BSE Commodities Section clearing member <sup>3</sup>	HUF 100,000 / month	3.2.1./3.2.2.	K77
	Financial market	HUF 100,000 / non-clearing member / month / market	3.2.4.	K24/K81
	Financial market Segregated non-clearing member, segregated client <sup>5</sup>	HUF 10,000 / non-clearing member, client / month / market	3.2.5.	E23/E22
	Financial market Client providing indirect clearing services <sup>6</sup>	HUF 10,000 / client / month (in case of omnibus account) HUF 10,000 / indirect client / month (in case of individual account)	3.2.6./3.2.7.	E27/E28
	Gas market individual clearing member <sup>7</sup>	HUF 200,000 / clearing member / month / market 2,850 RON / clearing member / month / market (solely for BRM Clearing members)	3.2.3.1 / 3.2.3.2.	G10/G14

### Notes:

<sup>1</sup> The clearing membership fee is charged to the general clearing member by the markets defined in Point 3.5.2. of the General Business Rules of KELER CCP from the time the contract is approved by KELER CCP. KELER CCP charges the fee for the full period for the broken month also.

<sup>2</sup> The clearing membership fee is charged to the individual clearing member by the markets defined in Point 3.5.2. of the General Business Rules of KELER CCP from the time the contract is approved by KELER CCP. KELER CCP charges the fee for the full period for the broken month also.

<sup>3</sup> The clearing membership fee is charged to the clearing member with clearing membership in the BSE Commodities Section exclusively, for the market defined in Point 3.5.2. of the General Business Rules of KELER CCP from the time the contract is approved by KELER CCP. KELER CCP charges the fee for the full period for the broken month also.

<sup>4</sup> The non-clearing membership fee is charged to the general clearing member for the non-clearing members it reported, by the markets defined in Point 3.5.2. of the General Business Rules of KELER CCP from the time the contract is approved by KELER CCP. KELER CCP charges the fee for the full period for the broken month also.

<sup>5</sup> The segregated non-clearing member or the segregated client fee is charged to the clearing member for the segregated non-clearing members and segregated clients reported by the markets determined in Point 3.5.2. of the General Business Rules of KELER CCP. In the case of the segregated non-clearing member it is payable in addition to the non-clearing membership fee from the time the KELER CCP acknowledges the advice. KELER CCP charges the fee for the full period for the broken month also.

<sup>6</sup> The fee determined for the client providing indirect clearing services is charged to the clearing member after its reported client based on the type of segregation described in Point 4.3.1. of the General Business Rules of KELER CCP. In the case of the segregated client it is payable in addition to the segregated client fee from the time KELER CCP acknowledges the advice. KELER CCP charges the fee for the full period for the broken month also.

<sup>7</sup> Charged to the gas market clearing member for the markets defined in Point 3.5.2. of the General Business Rules of KELER CCP from the time the KELER CCP acknowledges the advice. KELER CCP charges the fee for the full period for the broken month also.

### Example – calculation of clearing membership fees

A general clearing member is clearing member in the following sections/ranges of transactions: BSE equities section, debt section, equities transactions, financial transactions and BSE Commodities Section within the derivatives section of BSE, and MTS market clearing membership.

The amount of clearing membership is HUF 200,000 per month for the equities and / or debt instruments section and for MTS market membership + HUF 200,000 monthly for the equities and financial transactions of the derivative section and for the Commodities Section, that is the total clearing membership fee is HUF 400,000 / month.

If the same clearing member has one non-clearing member in the BSE equities section, debt section, equities and financial transactions within the derivative section of BSE, and has another non-clearing member in BSE equities transactions, the non-clearing membership fee will be as follows.

The amount of non-clearing membership fee is HUF 100,000 monthly for the equities / debt instruments sections + HUF 100,000 monthly for equities and financial transactions within the derivative section + HUF 100,000 for the other non-clearing member, that is altogether the total non-clearing membership fee is HUF 300,000 / month.

If a non-clearing member of the clearing member is a segregated non-clearing member in the BSE equities range of transactions, furthermore, the clearing member has one segregated client in the equities and/or debt section and also in the derivative market, the sum of the individually segregated non-clearing member and segregated client fee of the clearing member is HUF 30,000 / month.

If the general clearing member has MTS market clearing membership only, the clearing membership fee is HUF 200,000 / month.

An individual clearing member has clearing membership in the following sections/ranges of transactions: BSE equities section, debt section, equities and financial ranges of transactions within the BSE derivatives section and BSE Commodities Section, and MTS market clearing membership

The clearing membership fee is HUF 150,000 monthly for the equities and debt section and the MTS market membership + HUF 150,000 monthly for the equities and financial ranges of transactions of the derivatives section and for the Commodities Section, thus the clearing membership fee is HUF 300,000 per month.

If a clearing member (general or individual) has clearing membership in the BSE Commodities Section only, the clearing membership fee is HUF 100,000 per month.

If the gas market clearing member has TP clearing membership and Balancing clearing membership only, the clearing membership fee is HUF 200,000 monthly during the term of the clearing membership agreement. If a gas market clearing member has only CEEGEX clearing membership and Balancing clearing membership, the clearing membership fee is HUF 200,000 monthly during the term of the clearing membership agreement. In case of a Gas market Clearing Member that is solely a BRM Clearing Member, the clearing membership fee is 2,850 RON monthly during the term of the clearing membership agreement.

If a gas market clearing member has both TP and CEEGEX clearing membership, and Balancing clearing membership, the clearing membership fee is HUF 200,000 / month.

If the gas market clearing member has TP, CEEGEX and Balancing clearing membership, and HUDEX/Gas clearing membership also, the clearing membership fee is HUF 400,000 / month.

If a gas market clearing member has CEEGEX and Balancing clearing membership, and HUDEX/Gas clearing membership also, the clearing membership fee is HUF 400,000 / month.

## Energy market non-clearing membership

2.	Non-clearing membership service	Fee	KELER CCP GBR	Code
	Energy market non-clearing membership <sup>8</sup>	HUF 200,000 / non-clearing member / month / market*	9.3.	A11 / A21
	Individual client segregation	HUF 10,00 / non-clearing member/month	9.7.2.	A92
Notes:				
<sup>8</sup> The non-clearing membership fee is charged to the energy market non-clearing member for the market defined in Point 9.5.2. of the General Business Rules of KELER CCP from the time the contract is approved by KELER CCP. KELER CCP charges the fee for the full period for the broken month also.				

### **Example – energy market non-clearing membership fee calculation**

An energy market non-clearing member has energy market non-clearing membership in the day-ahead energy market only. The energy market non-clearing membership fee is HUF 200,000 per month during the term of the non-clearing membership agreement.

Another energy market non-clearing member has energy market non-clearing membership in the day-ahead and futures markets also. The monthly energy market non-clearing membership fee is 2 x HUF 200,000, that is HUF 400,000 / month.

### **Spot Market, BSE MTF Market, BSE SME market and MTS Market (Multinet market)**

3.	Spot Market, BSE MTF Market, BSE SME market and MTS Market Services	Fee	KELER CCP General Business Rules	Code
	<b>Multinet transaction<sup>9,10</sup></b>		4.5.	
	Up to 250,000 transaction per year	HUF 75 / transaction*		K88/K91
	Between 250,001 and 500,000 transaction	HUF 70 / transaction*		K89/K92
	Above 500,000 transaction	HUF 65 / transaction*		K90/K93
Notes:				
<sup>9</sup> KELER CCP charges the fees for HUF and foreign currency based transactions to both the buyer and the seller.				
<sup>10</sup> The tiered fee is applied based on the total turnover of the transactions ( <i>transaction number</i> ) the clearing member made in the calendar year.				
*KELER CCP Ltd. provides a 75% fee discount for those market makers who join the quotation system of the BUX Futures introduced by the Budapest Stock Exchange. The discount is validated by KELER CCP on a monthly basis until the 15 <sup>th</sup> day of the following month based on the information prescribed by the Budapest Stock Exchange with regards to cash market transactions concluded for hedging in the scope of quotation system. The discounted period is valid until withdrawal.				

### **Example – Calculation of spot market, BSE MTF market, BSE SME market and MTS market fee**

A clearing member concludes the following guaranteed regulated market transactions on the same day:

- 16 Buy transactions for OTP equities
- 32 Sell transactions for MOL equities
- 16 Buy transactions for BUXETF
- 32 Sell transactions for government securities
- 10 Buy transactions for corporate bonds

Altogether: 106 transactions.

Fees due: 106 transactions \* HUF 75 / transaction = HUF 7,950

### **Example – Tiered fee calculation**

During the calendar year the turnover (transaction number) of a clearing member exceeds 250,000 transactions with multinet settlement. For the monthly clearing fee calculation each additional new transactions, until the highest tier is reached, is charged a transaction fee of HUF 70 / transaction as stated in Tier 2. If during the calendar year the clearing member turnover exceeds 500,000 transactions, each additional new transaction is charged a transaction fee of HUF 65 / transaction as stated in Tier 3.

The clearing fee of clearing members not reaching 250,000 transactions in the calendar year is HUF 75 / transaction.

Example:

Annual turnover: 750,000 transactions

Annual turnover fee (based on monthly fee invoices):

until 250,000 transactions:

250,000 x HUF 75 = HUF 18,750,000

between 250,001 and 500,000 transactions:

250,000 x HUF 70 = HUF 17,500,000

above 500,000 transactions:

250,000 x HUF 65 = HUF 16,250,000

## Derivative market

All transactions that result in closing open positions are position closing. „Day trade” fees are charged for the sell side of transactions of the same type – futures or options - that are made on the same day, based on BSE dealing and are of opposite direction but do not influence open positions.

4.	Derivative market services	Fee	KELER CCP General Business Rules	Code
4.1.	Interest contracts <sup>11</sup>		4.6.5.	
	Position opening	HUF 2.54/contract		K02
	Position closing	HUF 2.54/contract		K04
	Day trade	HUF 3.92/contract		K07
<p>Note:</p> <p><sup>11</sup> Fees are for contract size of HUF 1 million, for all types of deposit and lending interest rate positions. In case of other contract sizes the fee shall change proportionately.</p>				

	Derivative market services	Fee	KELER CCP General Business Rules	Code
4.2.	Foreign exchange contracts <sup>11</sup>		4.6.5.	
	All non 1-week or shorter contracts			
	Position opening <sup>13</sup>			
	Until 1,500,000 contracts per year <sup>14</sup>	0.3495 bp/contract		K85
	Between 1,500,001 and 3,000,000 contracts <sup>14</sup>	0.3200 bp/contract		K86
	Above 3,000,000 contracts <sup>14</sup>	0.3000 bp/contract		K87
	Position closing <sup>13</sup>	0.3495 bp/contract		K09
	Day trade	HUF 3.92/contract		K10
	1-week or shorter contracts			
	Position opening <sup>14</sup>	0.114 bp/contract		K11
	Position closing <sup>14</sup>	0.114 bp/contract		K12
	Day trade	HUF 1.96/contract		K13
<p>Notes:</p> <p><sup>12</sup> KELER CCP reviews position closing and position opening fees of contracts every 6 month, as of 1 January and 1 July and reviewed fees are made public in an Announcement.</p> <p><sup>13</sup> Fees per contract shown in basis points are rounded when applied to individual contract values. Individual contract values will be established with the use of the rate published by the Magyar Nemzeti Bank for December 15 and June 15. KELER CCP reserves the right to review fees per contract out of turn in case of price changes exceeding 10 %.</p> <p><sup>14</sup> Tiered fees are applied to the total turnover of contracts (number of contracts) of the clearing member in the calendar year.</p>				

	Derivative market services	Fees	KELER CCP General Business Rules	Code
<b>4.3.</b>	<b>Commodities Section</b>		4.6.5.	
	<b>Futures grain contracts</b>			
	Position opening	HUF 148/contract		K14
	Position closing	HUF 148/contract		K15
	Physical settlement	HUF (148+350) 498 / contract	4.6.5.5.	K16
	Day trade	HUF 49/contract		K17
	<b>Ammonium Nitrate contracts</b>			
	Position opening	HUF 30/contract		K18
	Position closing	HUF 30/contract		K66
	Physical settlement	HUF (30+70) 100/ contract	4.6.5.5.	K67
	Day trade	HUF 9.8/contract		K68

	Derivative market services	Fee	KELER CCP General Business Rules	Code
<b>4.4.</b>	<b>Futures equity related contracts</b>		4.6.5.	
	<b>BUX* and BUMIX</b>			
	Position opening	HUF 6.80/ contract		K69
	Position closing	HUF 6.80/ contract		K25
	Day trade	HUF 2.94/ contract		K26
<p>Note:</p> <p>*KELER CCP Ltd. provides a 75% fee discount for those market makers who join the quotation system of the BUX Futures introduced by the Budapest Stock Exchange. The discount is validated by KELER CCP on a monthly basis until the 15<sup>th</sup> day of the following month based on the information prescribed by the Budapest Stock Exchange with regards to the BUX futures trades. The discounted period is valid until withdrawal.</p>				
	Individual equities			
	Position opening	HUF 6.80/ contract		K27
	Position closing	HUF 6.80/ contract		K28
	Physical settlement	HUF (6.8 + 70) 76.8/ contract	4.6.5.5.	K29
	Day trade	HUF 2.94/ contract		K30

	Derivative market services	Fee	KELER CCP General Business Rules	Code
<b>4.5.</b>	<b>Option contracts</b>		4.6.6.	
	Position opening	Position opening fee defined for the futures contract of the concerned range of transactions without considering the tiered fee discounts.		K31/K32 K33/K34
	Position closing	Position closing fee defined for the futures contract of the concerned range of transactions.		K35/K36 K37/K38
	Exercise of an option	Position closing fee defined for the futures contract of the concerned range of transactions.		K39/K40 K41/K42
	Day trade	HUF 9.8/contract		K43/K44 K45/K70

	Derivative market services	Fee	KELER CCP General Business Rules	Code
4.6.	Cancellation and correction transactions	Position opening and closing fee defined for the contract concerned.		K73

	Derivative market services	Fee	KELER CCP General Business Rules	Code
4.7.	Clearing services provided based on other, electronically submitted instruction		4.6.	
	Delivery change	HUF 350 / contract		K74
	Confirmation of physical delivery	HUF 350 / contract		K75
	Physical consignment	HUF 350 / contract		K76
	Position takeover	Position opening fee defined for the contract concerned without considering the tiered feed discounts.		K46 K48 K49 K50/K51
	Position transfer	Position closing fee defined for the contract concerned.		K04/K09 K12 K15/K66 K20 K25/K28 K35 K36/37 K38 K03
	Position closing request	Position closing fee defined for the contract concerned.*	4.6.5.3.	K52
Note:				
The fee includes the fee of position opening as well.				
	Dealing allocation	HUF 0 /contract	4.6.2.	
	Opening position keeping account (PVE)	HUF 424		K71
	Modification of position keeping account (PVE)	HUF 212		K72

	Derivative market services	Fee	KELER CCP General Business Rules	Code
4.8.	Instruction related to other clearing services, submitted by fax or on paper, with the exception of allocation	300 % of the fee defined for electronically submitted instructions		K53/K54/K60 /K63/K55 K62/K64/K61 K57/K58/K59 K25/K28/K35 K36/K37/K38 /K04/K09 K12/K15/K66
	Allocation submitted via fax or on paper	300 % of the fee defined for position opening in the contract concerned	4.6.2..	K65

### **Example – Calculation of guarantee fee in the derivative market**

A general clearing member undertakes the following activity on the BSE in the same invoicing period:

The clearing member concerned has several clients and opens 20 new client position management accounts (PMA) and modifies one client account. The fee of this activity in line with the table below is HUF 8,692.

	PMA	Fee / PMA	Fee payable
Opening position management account (PMA)	20	HUF 424	8,480
Modification of position management account (PMA)	1	HUF 212	212
<b>Total</b>			<b>8,692</b>

In the invoicing period the clearing member is active in various products and concludes transactions for 1,000 – 1,000 contracts for opening, closing and day trade in line with the table below. Transactions were made for 134,000 contracts altogether and the relevant fee payable is HUF 463,880.

	Contract	Fee/contract	Fee payable
<b>Interest contracts</b>			
Position opening	1,000	2.54	2,540
Position closing	1,000	2.54	2,540
Day trade	1,000	3.92	3,920
<b>Futures grain contracts</b>			
Position opening	1,000	148	148,000
Position closing	1,000	148	148,000
Day trade	1,000	49	49,000
<b>BUX and BUMIX</b>			
Position opening	1,000	6.8	6,800
Position closing	1,000	6.8	6,800
Day trade	1,000	2.94	2,940
<b>Individual equities</b>			
Position opening	1,000	6.8	6,800
Position closing	1,000	6.8	6,800
Physical settlement	1,000	76.8	76,800
Day trade	1,000	2.94	2,940
<b>Total</b>	<b>18,000</b>		<b>463,880</b>

### **Example – Tiered fee calculation**

During the calendar year the turnover (number of contracts) of a clearing member exceeds 1,500,000 contracts in futures (non-1 week) financial contracts. Each additional new transaction, until the highest tier is reached, is charged 0.3200 bp/contract stated in Tier 2 when the monthly clearing fee is calculated. If during the calendar year the turnover of the clearing member exceeds 3,000,000 contracts, each additional new contract traded is charged 0.3000 bp/contract as stated in Tier 3.

The clearing fee of clearing members not reaching the turnover level of 1,500,000 contracts during the calendar year is 0.3495 bp/contract.

## Imbalance transactions and Trading Platform market

5.	TP market service	Fee	KELER CCP GBR	Code
	Turnover fee <sup>15</sup>	0.0088 HUF/kWh	5.1.5.1.	G02 G04 G06 G08
Note: <sup>15</sup> For TP market trades KELER CCP charges fees to both the seller and the buyer.				
	Invoicing fee pursuant to an order	HUF 10,000/month+VAT	5.1.6.	Manual invoice
	Correction invoice fee	HUF 10,000/month+VAT		Manual invoice

### Example – Calculation of TP market guarantee fee

One day the TP market clearing member makes the following transactions on the TP market and has the following imbalance transaction created by KELER CCP:

- 432,000 kWh buy transaction MGP
- 54,000 kWh sell transaction HEG
- 900,000 kWh sell MGPEGY (imbalance transaction)

Total: 1,386,000 kWh

Fee to be charged: 1,386,000 kWh \* HUF 0.0088/kWh = HUF 12,196.80

## CEEGEX and HUDEX/Gas market

6.	CEEGEX and HUDEX/Gas market service	Fee	KELER CCP GBR	Code
	Turnover fee on CEEGEX arket <sup>16</sup>	HUF 3.0 /MWh	5.1.5.2.	G15
	Turnover fee on HUDEX/Gas market <sup>16</sup>	HUF 0.75 /MWh	5.1.5.2.	G16/G17
	Physical settlement of HUDEX/Gas futures contract <sup>16</sup>	HUF 3.0 /MWh	5.1.5.2.	G18
Note: <sup>16</sup> KELER CCP charges fees for CEEGEX and HUDEX/Gas market transactions to both the seller and the buyer.				
	Invoice issuance fee, based on authorization	HUF 10,000 /month+VAT	5.1.6.	Manual invoice

### Example – Calculation of CEEGEX market guarantee undertaking fee

A CEEGEX market clearing member concludes the following transactions on the daily market:

- 200 MWh Buy Day-ahead Auction
- 150 MWh Sell Day-ahead Auction

Total: 350 MWh

**Fee charged: 350 MWh × HUF 3.0 /MWh = HUF 1,050**

A HUDEX/Gas market clearing member concludes the following deals on the futures market:

- 2 contracts Sell July, 2018, monthly Base load product
- 3 contracts Buy Q2 2018 quarterly Base load product

Total:  $2 \times 744 \text{ MWh} + 3 \times 2,208 \text{ MWh} = 8,112 \text{ MWh}$

**Fee charged:  $8,112 \text{ MWh} \times \text{HUF } 0.75 / \text{MWh} = \text{HUF } 6,084.4$**

Physical settlement of futures product

- 2 contracts Sell July, 2018 monthly Base load product (first delivery date: 01.07.2018.)

**Fee charged:  $1,488 \text{ MWh} \times \text{HUF } 3.0 / \text{MWh} = \text{HUF } 4,464.0$**

### BRM market

7.	BRM market service	Fee	KELER CCP GBR	Code
	Turnover fee on the physical forward market <sup>17</sup>	0.011 RON/MWh	5.1.5.3.	G34
	Physical settlement of BRM physical forward contract <sup>17</sup>	0.044 RON/MWh	5.1.5.3.	G35
Note: <sup>17</sup> KELER CCP charges fees for BRM market transactions to both the seller and the buyer.				
	Invoice issuance fee, based on authorization	140 RON / month+VAT	5.1.6.	Manual invoice

### Example – Calculation of BRM market guarantee undertaking fee

A BRM Clearing member conducts the following deals on the physical forward market:

- 2 contracts Sell April, 2018 monthly Base load product
- 3 contracts Buy Q4 2018, quarterly Base load product

Total:  $2 \times 720 \text{ MWh} + 3 \times 2,208 \text{ MWh} = 8,064 \text{ MWh}$

**Fee charged:  $8,064 \text{ MWh} \times 0.011 \text{ RON} = 88.70 \text{ RON}$**

Physical settlement of physical forward product

- 2 contracts Sell April, 2018 monthly Base load product (first delivery date: 01.04.2018)

**Fee charged:  $1,440 \text{ MWh} \times 0.044 \text{ RON/MWh} = 63.36 \text{ RON}$**

### Energy market

8.	Energy market non-clearing membership services related clearing fees	Fee	KELER CCP GBR	Code
8.1.	Energy market non-clearing member service (HUPX, HUDEX, EPEX SPOT, EPEX SPOT Belgium, EEX, PXE, SEEPEX, SEMOpX) – Power trading clearing fees			
	Turnover fee on spot power market <sup>18</sup>		9.2.	
	Up to TWh 0.5 per year <sup>19</sup>	HUF 4.2 / MWh		A12
	From TWh 0.5 to TWh 1 per year <sup>19</sup>	HUF 3.2 / MWh		A34
	Above TWh 1 per year <sup>19</sup>	HUF 2.4 / MWh		A36
	Turnover fee on physical futures power market <sup>18</sup>		9.2	

	Up to TWh 0.5 per year <sup>20</sup>	HUF 2.1 / MWh		A22
	From TWh 0.5 to TWh 1 per year <sup>20</sup>	HUF 1.6 / MWh		A38
	Above TWh 1 per year <sup>20</sup>	HUF 1.2 / MWh		A40
	Physical settlement of futures power market contract <sup>18</sup>		9.2	
	Up to TWh 0.5 per year <sup>19</sup>	HUF 4.2 / MWh		A31
	From TWh 0.5 to TWh 1 per year <sup>19</sup>	HUF 3.2 / MWh		A42
	Above TWh 1 per year <sup>19</sup>	HUF 2.4 / MWh		A44
	Turnover fee in the spot power market (SEEPEx) <sup>18</sup>		9.2.	
	Up to TWh 0.5 per year <sup>19</sup>	HUF 6.3 / MWh		A31
	From TWh 0.5 to TWh 1 per year <sup>19</sup>	HUF 4.8 / MWh		A42
	Above TWh 1 per year <sup>19</sup>	HUF 4.2 / MWh		A44
	Turnover fee in the spot power market (products traded in GBP) <sup>18</sup>		9.2.	
	Up to TWh 0.5 per year <sup>19</sup>	HUF 1.7 / MWh		A80
	From TWh 0.5 to TWh 1 per year <sup>19</sup>	HUF 1.3 / MWh		A81
	Above TWh 1 per year <sup>19</sup>	HUF 1.0 / MWh		A82
	Turnover fee in the spot power market (products traded on SEMOpX) <sup>18</sup>		9.2	
	Up to TWh 0.5 per year <sup>19</sup>	HUF 1.7 / MWh		A93
	From TWh 0.5 to TWh 1 per year <sup>19</sup>	HUF 1.3 / MWh		A94
	Above TWh 1 per year <sup>19</sup>	HUF 1.0 / MWh		A95
	Turnover fee in the futures power market (Romanian futures contract) <sup>18</sup>		9.2	
	Up to TWh 0.5 per year <sup>20</sup>	HUF 6.3 / MWh		A83
	From TWh 0.5 to TWh 1 per year <sup>20</sup>	HUF 4.8 / MWh		A84
	Above TWh 1 per year <sup>20</sup>	HUF 4.2 / MWh		A85
	Turnover fee in the futures power market (Guarantees of origin) <sup>18</sup>		9.2	
	Up to TWh 0.5 per year <sup>20</sup>	HUF 1.05 / MWh		A86
	From TWh 0.5 to TWh 1 per year <sup>20</sup>	HUF 0.8 / MWh		A87
	Above TWh 1 per year <sup>20</sup>	HUF 0.65 / MWh		A88
	Certificate delivery upon maturity (Guarantees of origin) <sup>19</sup>		9.2	
	Up to TWh 0.5 per year <sup>20</sup>	HUF 0.08 / MWh		A89
	From TWh 0.5 to TWh 1 per year <sup>20</sup>	HUF 0.06 / MWh		A90
	Above TWh 1 per year <sup>20</sup>	HUF 0.05 / MWh		A91
	French Capacity Guarantees	HUF 450 / capacity guarantee	9.2.	A79

Notes:

<sup>18</sup> KELER CCP charges fees for energy market transactions both for sell and buy transactions.

<sup>19</sup> Tiered fees apply to the total turnover in physical delivery power transactions concluded by the energy market trader within the calendar year. Physical power deliveries from spot market trades and physical power deliveries from futures trades are taken into account jointly.

<sup>20</sup> Tiered fees apply to the total turnover of futures power trades concluded by the energy market trader in the calendar year.

### Example – Calculation of energy market non-clearing service fee

An energy market clearing member concludes the following transactions at the day-ahead power market:

- 200 MWh Buy Day-ahead Auction
- 150 MWh Sell Day-ahead Auction

Total: 350 MWh

**Fee charged:  $350 \text{ MWh} \times \text{HUF } 4.2 / \text{MWh} = \text{HUF } 1,470$**

An energy market clearing member concludes the following deals on the physical futures power market:

- 2 contracts Sell July, 2018, monthly Base load product
- 3 contracts Buy Q4 2018 quarterly Base load product

Total:  $2 \times 744 \text{ MWh} + 3 \times 2,208 \text{ MWh} = 8,112 \text{ MWh}$

**Fee charged:  $8,112 \text{ MWh} \times \text{HUF } 2.1 / \text{MWh} = \text{HUF } 17,035.2$**

Physical settlement of futures product

- 2 contracts Sell July, 2018 monthly Base load product (first delivery date: 01.07.2018.)

Based on deliveries to be made:

Number of contracts  $\times$  number of days  $\times$  number of hours, that is  $2 \times 31 \times 24 = 1,488 \text{ MWh}$

**Fee charged:  $1,488 \text{ MWh} \times \text{HUF } 4.2 / \text{MWh} = \text{HUF } 6,249.6$**

#### **Example – calculation of tiered fees:**

During one calendar year the joint turnover in the day-ahead market and futures transactions with physical settlement of the energy market non-clearing member reaches TWh 0.5, in this case the monthly turnover fee is calculated in line with the applicable tiers:

- from TWh 0.5 up to TWh 1 the turnover fee of each additional contracted and physical delivery MWh is HUF 3.2 / MWh.
- Above TWh 1 the turnover fee of each additional contracted and physical delivery MWh is HUF 2.4 / MWh.

Annual turnover: TWh 1.5 (based on day-ahead and futures physical deliveries)

Annual turnover fee (based on monthly invoices):

Up to TWh 0.5:  $500,000 \text{ MWh} \times \text{HUF } 4.2 / \text{MWh} = \text{HUF } 2,100,000$

From TWh 0.5 up to TWh 1:  $500,000 \text{ MWh} \times \text{HUF } 3.2 / \text{MWh} = \text{HUF } 1,600,000$

Over TWh 1:  $500,000 \text{ MWh} \times \text{HUF } 2.4 / \text{MWh} = \text{HUF } 1,200,000$

The turnover of an energy power market non-clearing member reaches TWh 0.5 during the calendar year due to open futures transaction turnover, in this case monthly turnover fee shall be charged in line with the applicable tiers

- from TWh 0.5 up to TWh 1 the turnover fee of each additional contracted open futures position MWh is HUF 1.6 / MWh.
- Above TWh 1 the turnover fee of each additional contracted and physical delivery MWh is HUF 1.2 / MWh.

Annual turnover: TWh 1.5 (based on open positions)

Annual turnover fee (based on monthly invoices):

Up to TWh 0.5:  $500,000 \text{ MWh} \times \text{HUF } 2.1 / \text{MWh} = \text{HUF } 1,050,000$

From TWh 0.5 up to TWh 1:  $500,000 \text{ MWh} \times \text{HUF } 1.6 / \text{MWh} = \text{HUF } 800,000$

Above TWh 1:

$$500,000 \text{ MWh} \times \text{HUF } 1.2 / \text{MWh} = \text{HUF } 600,000$$

8.2	Energy market non-clearing member service (Powernext) – Gas trading clearing fees	Fee	KELER CCP GBR	Code
	Turnover fee in the spot market <sup>21</sup>		9.2	
	Up to 0.5 TWh per annum <sup>22</sup>	HUF 4.2 / MWh		A54
	From 0.5 TWh up to 1 TWh <sup>22</sup>	HUF 3.2 / MWh		A55
	Above 1 TWh <sup>22</sup>	HUF 2.4 / MWh		A56
	Turnover fee in the futures market <sup>21</sup>		9.2	
	Up to 0.5 TWh per annum <sup>23</sup>	HUF 1.05 / MWh		A72
	From 0.5 TWh up to 1 TWh <sup>23</sup>	HUF 0.8 / MWh		A73
	Above 1 TWh <sup>23</sup>	HUF 0.6 / MWh		A74
	Future contract physical settlement <sup>21</sup>		9.2	
	Up to 0.5 TWh per annum <sup>22</sup>	HUF 4.2 / MWh		A63
	From 0.5 TWh up to 1 TWh <sup>22</sup>	HUF 3.2 / MWh		A64
	Above 1 TWh <sup>22</sup>	HUF 2.4 / MWh		A65
8.3	Energy market non-clearing member service (EEX) – Emission unit clearing fees	Fee	KELER CCP GBR	Code
	Emission units spot trading – Secondary market trading <sup>21</sup>	HUF 0.42 / tCO <sub>2</sub>	9.2	A51
	Emission unit spot trading – Auction (only buyers) <sup>24</sup>	HUF 0.42 / tCO <sub>2</sub>	9.2	A51
	Emission units spot trading – Auctions in the so-called 'Transitional Common Auction Platform' <sup>21</sup>	HUF 0.21 / tCO <sub>2</sub>	9.2	A51
	Futures trades – Secondary market trading <sup>21</sup>	HUF 0.42 / tCO <sub>2</sub>	9.2	A69
	Futures trades – Auctions (only buyers) <sup>24</sup>	HUF 0.42 / tCO <sub>2</sub>	9.2	A69
	Option trades	HUF 0.42 / tCO <sub>2</sub>	9.2	A69
8.4	Energy market non-clearing member service (EEX) – Coal trading clearing fees	Fee	KELER CCP GBR	Code
	Futures trades <sup>21</sup>	HUF 0.66 / t	9.2	A66
	Futures trades financial clearing <sup>21</sup>	HUF 0.66 / t	9.2	A66

Notes:

<sup>21</sup> KELER CCP charges the fees for both buy and sell energy market trades.

<sup>22</sup>The tiered fee is applied to the day-ahead market gas trades total turnover of the energy market trader in the calendar year. The physical gas deliveries arising from the day-ahead market trades and from the futures trade are taken into account jointly.

<sup>23</sup>The tiered fee is applied to the futures gas trades total turnover of the energy market trader in the calendar year.

<sup>24</sup> KELER CCP charges the fees for buy energy market trades.

## Default

9.	Default related services	Fee	KELER CCP General Business Rules	Code
9.1.	Default on the spot market, BSE MTF market, BSE SME market and MTS market (Multinet market default)		7.3.	
	Default basic fee <sup>25</sup>	HUF 600,000 / occasion	7.3.6.6.	Manual document in favor TEA
	Securities default basic fee <sup>28</sup>		7.3.6.7.	Manual document in favor TEA
	Up to HUF 500 million	HUF 600,000 / day		E25
	HUF 500 million + HUF 1 – HUF 2 billion	HUF 1,000,000 / day		E25
	Above HUF 2 billion	HUF 2,000,000 / day		E25
	Securities default surcharge <sup>26</sup>	MAX(MNB base rate*2,5% p.a.),	7.3.6.8.	Manual

		minimum HUF 50,000 / event		document
	Late fee	HUF 200,000 /event	7.3.6.5.	K82
<b>9.2.</b>	Derivative market default basic fee		7.4.	
	Derivative default basic fee <sup>25</sup>	HUF 600,000 / event	7.4.2.	E26 Manual document in favor TEA
	Late fee	HUF 200,000 /event	7.4.1.	K83
<b>9.3.</b>	Gas market default		5.1.7.	
	Gas market default			G21
	Default basic fee <sup>27</sup>	HUF 600,000 / event	5.1.10.	manual
	Late fee	HUF 200, 000 /event	5.1.9.	G12
<b>9.4.</b>	Energy market default		9.9.	
	Default basic fee	HUF 600,000 / event	9.10.	A14/A24
	Late fee	HUF 200,000 / event	9.11.	A13/A23
<p>Notes:</p> <p><sup>25</sup> The derivative and multinet default basic fees collected are shared equally (50-50%) by the collective guarantee funds concerned (KGA, TEA) and KELER CCP.</p> <p><sup>26</sup> The entire amount (100%) of the multinet securities default surcharge is due to the innocent buyer.</p> <p><sup>27</sup> The gas market default basic fee collected is shared equally (50-50%) by the collective guarantee funds concerned (TP KGA, CEEGEX / HUDEX/Gas KGA) and KELER CCP.</p> <p><sup>28</sup> In the case of Multinet default:</p> <ul style="list-style-type: none"> <li>the value of securities default is determined by multiplying the quantity of defaulted securities and the highest of the T-day closing price or the actual fulfillment day closing price</li> <li>for the calculation of the securities default basic fee KELER CCP applies the fee of the corresponding range and considers the number of days during the period of default. (after 14:00 hrs. on SD = 1 day, SD+1 started day = 2 days, SD+2 started days=3 days)</li> <li>securities default surcharge is applied by KELER CCP for the value and period of default pursuant to the following formula:</li> </ul> $\text{Securities default surcharge} = \frac{\text{Value of default} * (\text{MAX}(\text{MNB base rate} * 2; 5\% \text{ p.a.})) * \text{number of days}}{365}$				

## Other service fees

10.	Other service fees	Fee	GBR	Code
10.1.	Individual statement, statement, copy provided on multinet and derivative stock exchange trade confirmation	HUF 1,000 +VAT/page		56/I6, D6/D8
10.2.	Supplementary list of trades (to report to the trade repository)	HUF 30 + VAT / trade	4.1.	E24
10.3.	Modification of the currency of fee invoicing to a currency other than the currency of the original statement	HUF 10,000 + VAT		manual

## **Closing provisions**

The present Regulation enters into force following approval by the Magyar Nemzeti Bank, on the date stated by KELER CCP.

The payment of the fee stated in Point 10.3. of this Regulation is waived on one occasion for the Clients that already had valid agreements at the time the amendment entered into force. Clients that conclude the agreement after Point 10.3. enters into force will not be exempt from fee payment.

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