

PRODUCTS LIST AND SPECIFICATION

HUPX DAY-AHEAD MARKET

ANNEX III.A

OF

HUPX MARKET RULES

Version 109.0

Effective from 2915/056/20243

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HUPX DAM PRODUCTS LIST AND SPECIFICATIONS

HUPX DAY-AHEAD AUCTION	
General Information	
Product name	HUPX Hungarian Power Day-ahead Market Hour
Description	Short term physical Product of electricity power, delivered at the Hungarian Electricity Transmission System operated by TSO.
Basic quality of the underlying product	Electrical power transiting over the Hungarian Transmission System managed by the Hungarian TSO, which defines the voltage, frequency, cosine φ (displacement factor) and cut-off frequencies, in compliance with the regulations of the Grid Code of the Hungarian Electricity System.
Physical Delivery	Delivery at any injection or withdrawal point on the Hungarian Transmission System.
Delivery procedure (Nomination)	Nomination by the Clearing House (on behalf of HUPX) and by the Balance Group Responsible of the HUPX Member to the TSO on the basis of the regulations of the TSO Commercial Code.
Clearing and Settlement	Trade information transmitted by HUPX to the Central Counterparty, ECC AG for Settlement and Delivery of the Contracts
Trading procedure	Daily Auction
Trading days	Year-round
Delivery unit	60 minutes
Listing day	21 st July, 2010
Contract Name	YYYY-MM-DDTHH:MM:SSZ indicates the exact delivery start and delivery end, in UTC time zone
Contract Short Name	HH-HH indicates the hours when delivery starts and ends on a respective day visible in the trading system
Delivery Period	1 hour of the day Hour 01: the period between midnight and 1:00 am Hour 02: the period between 1:00 am and 2:00 am, and so on and so forth

	Hour 24: the period between 11:00 pm and midnight
Lot size (quantity characteristic during Order submission, minimum quantity)	0.1 MW
Maximum quantity	Maximum quantity for Linear Order: 100,000 MW (technical limit) Maximum quantity for Block Order: 400 MW
Minimum and maximum prices	-500.0 €/MWh / 4000.0 €/MWh
Tick size (price characteristic during Order submission)	Ten euro cent per MWh, 0.1 €/MWh
Results	Rounded market clearing price with 2 decimal digits
Gate Opening Time (GOT)	45 days before the Delivery Day
Gate Closure Time (GCT)	At 12:00 ¹ pm CET/CEST, one day before the Delivery Day
Publication time of preliminary results	As soon as possible from 12:45 pm CET/CEST
Publication time of final results	As soon as possible from 12:57 pm CET/CEST
Market coupling	Flow based market coupling (Core project) Launched on 8 th of June, 2022
Implicit Cross border allocation	On Austrian-Hungarian, Slovakian-Hungarian, Romanian-Hungarian, Croatian-Hungarian and Slovenian-Hungarian borders
Rollback	Possible in 6 weeks after the go-live of Flow based market coupling. In this case changes in Products List and Specification are also rolled back to the previous version
Second Auction	As soon as possible after Order Book closure / Second Auction Publication time: as soon as possible after the Second Auction closure Second auction is triggered if one of the following cases happens during the price calculation for at least one hour:

¹ In case of a technical issue, the Gate Closure Time (GCT) can be postponed to 12:20 pm CET/CEST

	<ol style="list-style-type: none"> 1. there is not any intersection of the market supply curve and the market demand curve 2. the market price exceeds the threshold value: lower than -500 €/MWh or higher than 2400 €/MWh
Negative Prices	<p>Negative prices are authorized where specified below (see minimum and maximum prices).</p> <p>NB: When a contract is traded with a negative price, it is legally regarded as a supply of service (removal service) by the recipient of power to the delivering party and not anymore as a supply of goods by the party delivering the power.</p>
Order types	<ol style="list-style-type: none"> a) Linear (individual hour) Order; b) Block Order; c) Physical delivery Order.
Linear Orders	
Minimum and Maximum numbers of price/quantity combinations for Single-Contracts orders	2 and 256
Block Orders	
Definition	Order on one or several combined Contracts with a minimum of one Contract of the same Delivery Day. Expiries depend on each other in their execution.
Specific conditions	<p>All-or None</p> <p>The maximum number of Block Orders: <u>410</u></p>
Smart blocks <u>Blocks</u> – linked <u>(family)</u>	<p>A Linked <u>family</u> block group is a set of Block Orders which have together a linked execution constraint <u>when a child Block Order has the execution constraints of a simple Block Order, and can be executed only if the parent Block Order is executed.-</u></p> <p>Maximum values of linked <u>family</u> block groups:</p> <ul style="list-style-type: none"> ▶ Number of generations: 7 ▶ Number of children for a parent block <u>Block</u>: 6 ▶ Number of parents for a child block <u>Block</u>: 1 ▶ Size of a linked <u>family</u> block <u>Block</u> group: 7 ▶ Number of linked <u>family</u> block <u>Block</u> groups per portfolio: 5

<u>Smart bBlocks – linked (loop)</u>	<p><u>Loop blocks are defined as a set of 2 classic profile Blocks (1 sell and 1 buy Block for instance) that are either both accepted, or both rejected.</u></p> <p><u>Maximum values of linked loop block groups:</u></p> <ul style="list-style-type: none"> ▶ <u>Number of Block Orders in a linked loop Block group: 2</u> ▶ <u>Number of linked loop Block groups per portfolio: 3</u> — <u>Maximum aggregated net volume of a linked loop Block group: 400 MW</u> <p>▶</p>
Smart blocks - <u>Blocks</u> - exclusive	<p>An Exclusive block group is a set of Block Orders within which a maximum of one Block Order can be executed. (Best conditions)</p> <p>Maximum values of exclusive block-<u>Block</u> groups:</p> <ul style="list-style-type: none"> ▶ Number of blocks in an exclusive block-<u>Block</u> group: 24 ▶ Number of exclusive block-<u>Block</u> groups per portfolio: 10
Physical delivery Orders	
Definition	<p>Special order type, what can be submitted only by market operator. It contains the physical delivery positions requested by the Member, based on its open positions derived from HUDEX Financial Power market segment. Submitted orders has to be accepted in the Trading System, by the Member.</p>
Periods	Weekly and monthly