

20/09/2019 Budapest - Workshop  
**XBID go-live preparation /  
Single Intraday Coupling**

Gabriella Juhász  
Senior Market Development Expert



1. Sum up the points from last Workshop
  1. Background, how we got here
  2. Market coupling gain
  3. XBID project overview (XBID Common Projects, XBID System, Local Implementation Projects)
2. What will change with the go live of XBID
  1. Cross zonal capacity allocation
  2. Gate opening
  3. Gate closure
  4. Product changes
  5. The screen
3. Member testing period
4. Go-live
5. XBID success

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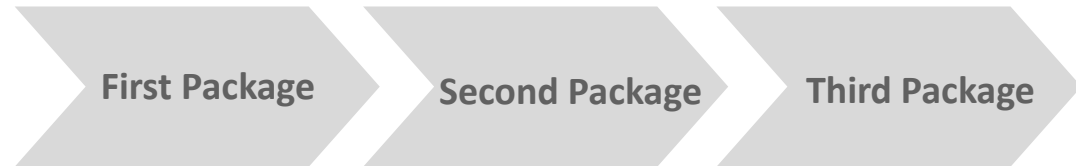
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2. Gate opening
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## 3. Member testing period

## 4. Go-live

## 5. XBID success

# How we got here?



- Principles for Single Market



- Rules for liberalization
- Give more power to regulators

- Effective separation of suppliers from network operators
- Establishment of the ACER
- Independent regulators
- Establishment of ENTSO-E
- Protecting consumer rights

- Most important goals:**
- Improve the competition
  - Guarantee security of supply
  - Increase Energy efficiency
  - Promote the interests of consumers



- Forward capacity allocation
- Electricity balancing
- Capacity allocation and congestion management

Single day-ahead  
Single Intraday market



## The benefits of integrating European electricity markets

*„The European Commission’s Target Electricity Model aims to integrate EU electricity markets. This paper estimates the potential benefit to the EU of coupling interconnectors to increase the efficiency of trading day-ahead, intra-day and sharing balancing services efficiently across borders. Further gains are possible by eliminating unscheduled flows and avoiding the curtailment of renewables with better market design. In the short run the gains could be as high as **€3.3 billion/yr**, more than 100% of the current gains from trade.”*

**3,3 billion euros/year -  
substantial amount**


<http://www.eprg.group.cam.ac.uk/wp-content/uploads/2015/02/EPRG-WP-1504.pdf>

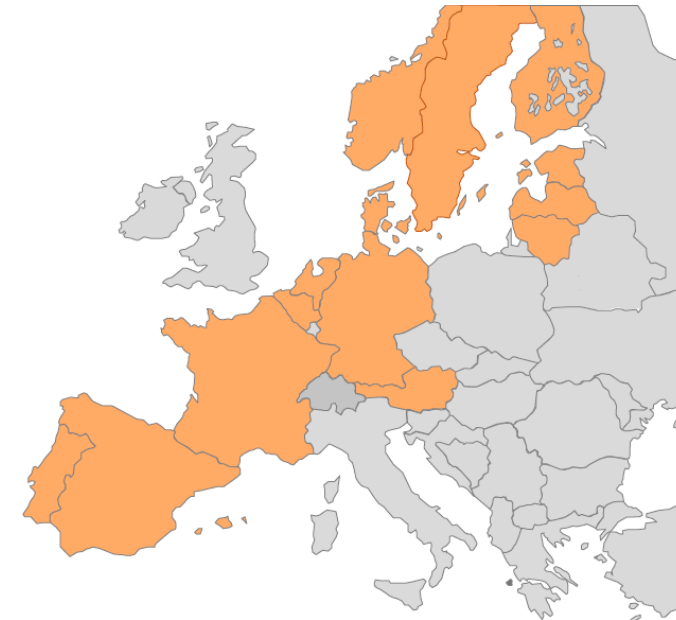
# So we do it: XBID project overview

- ▶ Establish a common cross border implicit continuous intraday trading solution across Europe, where all the cross border capacities are allocated
- ▶ The **XBID Project** started as a joint initiative by Power Exchanges and TSOs from 11 countries **to create an integrated intraday cross-border market**
- ▶ Currently 47 members
- ▶ Hungary will join in the 2nd wave

## Successful delivery of XBID depends on 3 different pillar



 =  
Countries to be coupled  
in 1<sup>st</sup> go-live

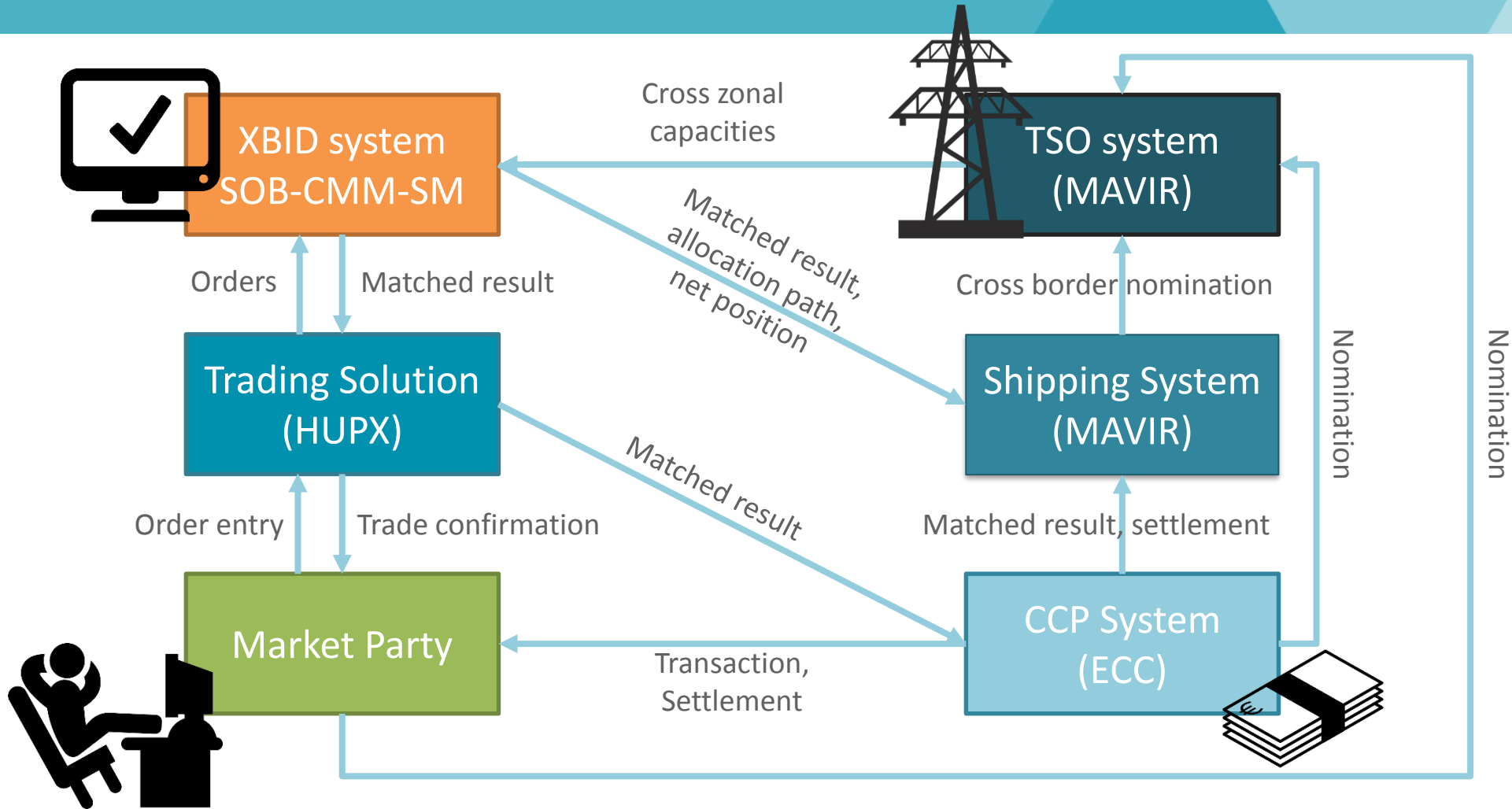


Go-live on Tuesday 12<sup>th</sup> June 2018

## Successful delivery of XBID depends on 3 different pillar



# XBID – Common project (High Level Architecture)

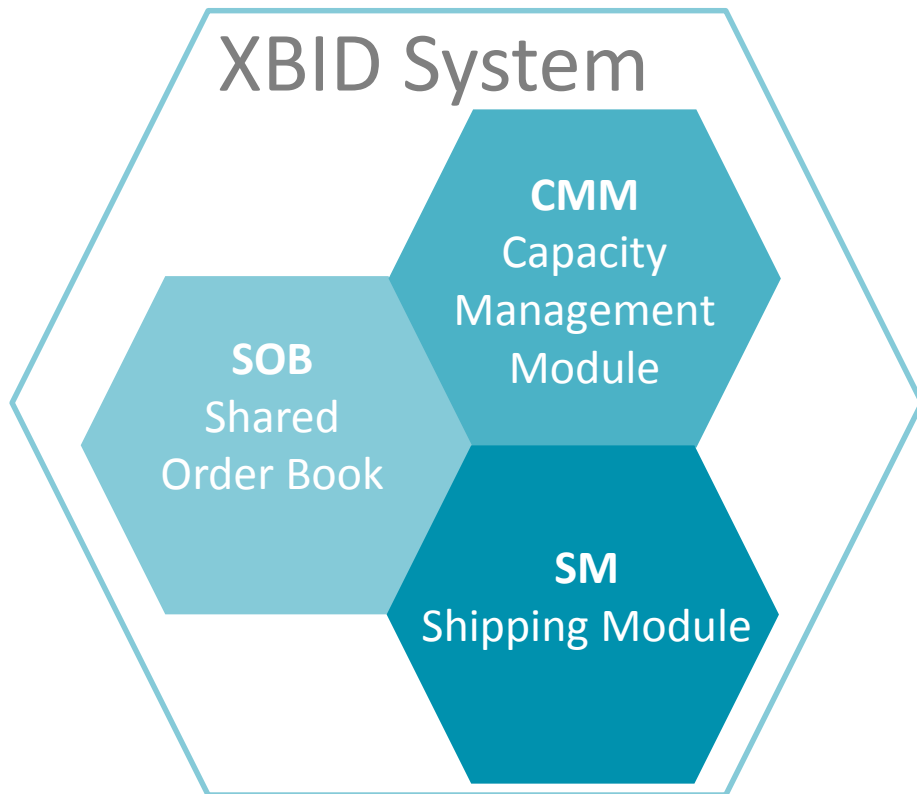


The purpose of the XBID initiative is to increase the overall efficiency of intraday trading



## Successful delivery of XBID depends on 3 different pillar





## SOB

- Matching of orders
- Calculation order execution flows
- Interface to Local Trading Systems
- Calculation of the Local Views of Order Books

## CMM

- Implicit capacity submission on border level
- Interface to TSOs

## SM

- Provides information from trades to all relevant parties of the post-coupling process.
- Between two different Delivery Areas (DAs)
- In the same DA between two different power exchanges

## Order Book Calculation

- ▶ On the screen **order from abroad are visible only** if **sufficient transmission capacity is available**
- ▶ The same order can be displayed in **multiple local views** (depending on available transmission capacity)
- ▶ Cross-border orders in the local views will be displayed **up to the available capacity**; hence orders can be shown with **partial volume**
- ▶ An **order is removed** from all local views after full execution, deactivation or deletion

## Rules for Order Book Calculation

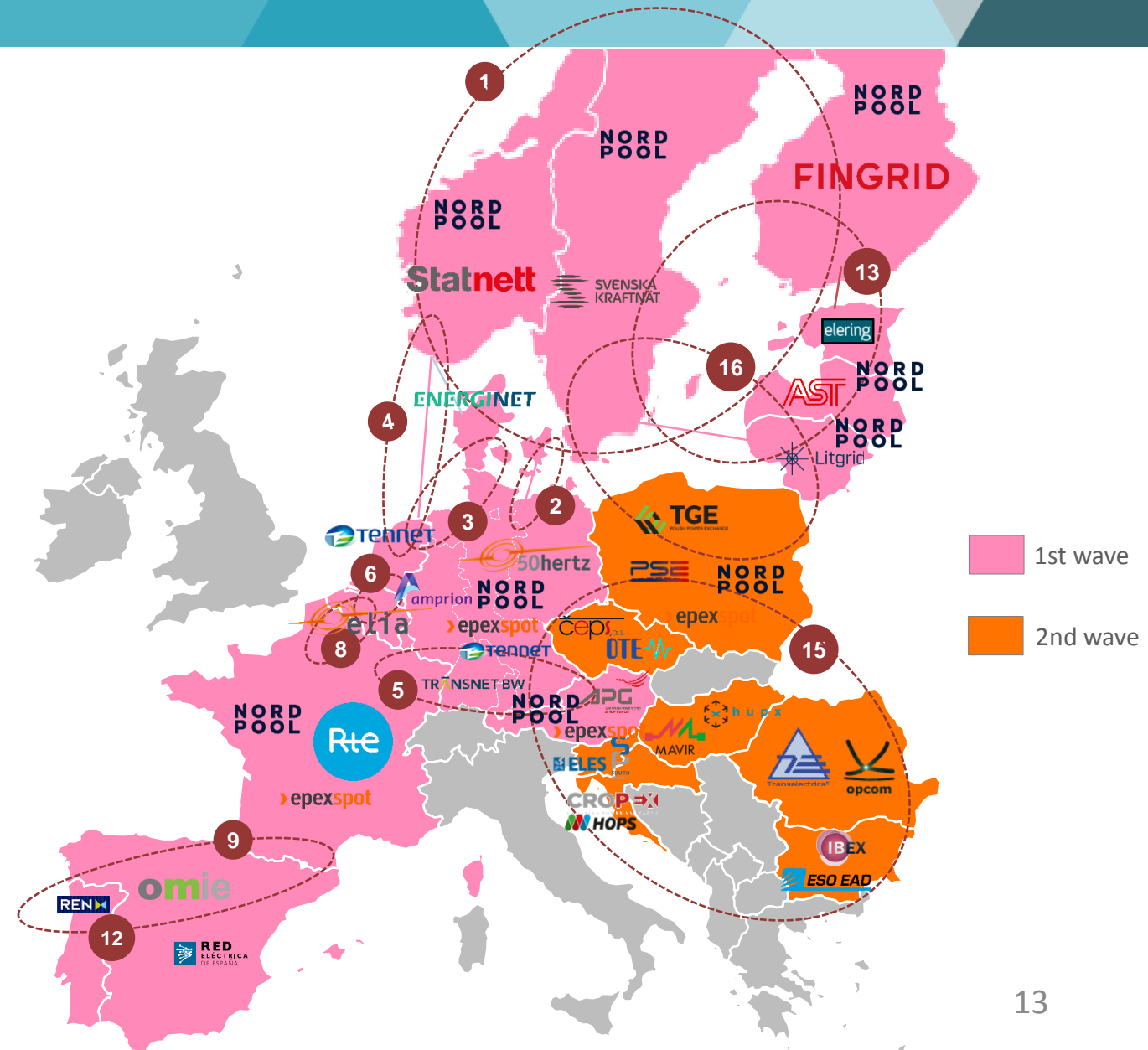
- ▶ Orders from other markets are selected based on available capacity and **price-time-priority**
- ▶ Traders **cannot see** in which area the orders that they see in their local order book were entered

## Successful delivery of XBID depends on 3 different pillar



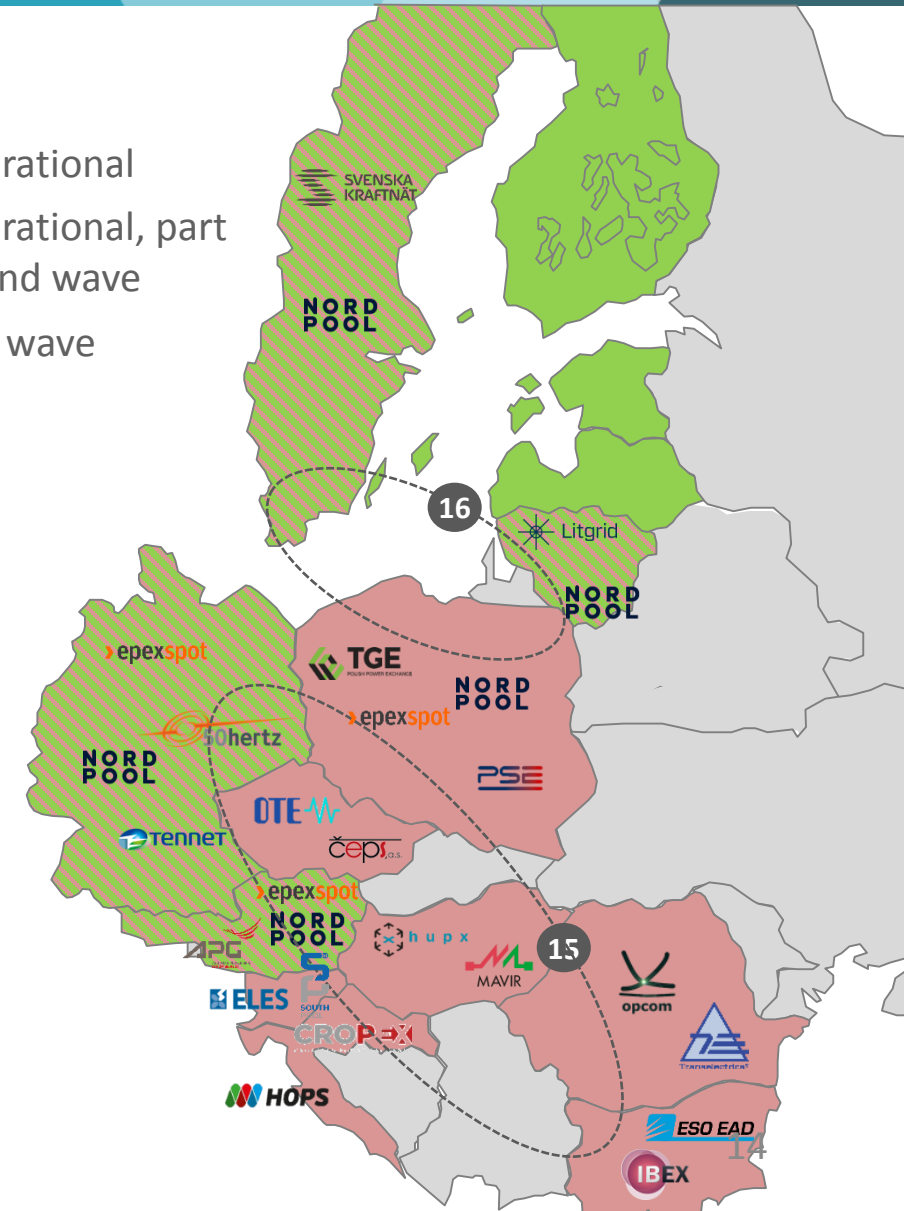
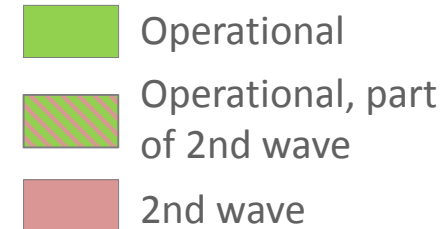
# XBID – LIPs (1st wave and parties involved)

LIP		Participants
1	Nordic	Fingrid, Energinet, SvK, Statnett, Nord Pool, EPEX
2	Kontek	Energinet, 50Hz, Nord Pool, EPEX
3	DK1/DE, DE/NL	Energinet, TenneT NL& DE, Amprion, EPEX, Nord Pool
4	NorNed	Statnett, TenneT NL, EPEX, Nord Pool
5	FR/DE, DE/AT	Amprion, TransnetBW, APG, RTE, EPEX, Nord Pool, TenneT DE
6	NL/BE	Elia, TenneT NL, EPEX, Nord Pool
8	FR/BE	RTE, Elia, EPEX, Nord Pool
9 12	FR/ES& ES/PT	RTE, EPEX, OMIE, REE, REN, Nord Pool
13	Baltic	Elering, Litgrid, AST, Fingrid (Estlink), Svenska Kraftnät (NordBalt), Nord Pool



# XBID – LIPs (2nd wave and parties involved)

LIP	Participants	Foreseen capacity allocation	
15	AT-CZ, AT-SI, AT-HU, BG-RO, CZ-DE, CZ-PL, DE-PL, SI-HR, HR-HU, HU-RO	<p><b>NEMOs:</b> BSP, Cropex, EPEX, HUPX, IBEX, Nord Pool, OPCOM, OTE</p> <p><b>TSOs:</b> 50Hertz, APG, CEPS, ELES, ESO, HOPS, MAVIR, PSE, Transelectrica, TTG</p>	<ul style="list-style-type: none"> <li>• Implicit</li> <li>• Implicit &amp; Explicit for SI-HR border</li> </ul>
16	LT-PL, PL-SE	<p><b>NEMOs:</b> Nord Pool, TGE</p> <p><b>TSOs:</b> Litgrid, PSE, Svk</p>	<ul style="list-style-type: none"> <li>• Implicit</li> </ul>



**Planned go-live date: 19.11.2019 – depends on the successful delivery of the necessary releases and tests.**

**Are you awake yet?  
Now the changes in your life so  
please wake up!**



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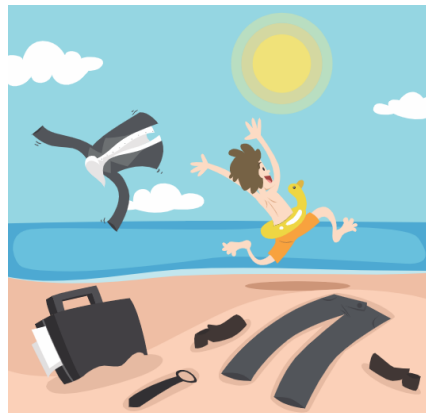
NO need to submit explicit capacity allocation request on XBID borders



NO more explicit capacity allocation on the coupled borders\*



NO need to waste time with submission of cross border nomination on intraday timeframe and cross border settlement



**Traders will save time!**

\*except of SI-HR where explicit continuous will be also available

Inter-connector	Cross Border Gate Opening (Technical GOT)	When cross-border capacity is made available after GOT (Effective GOT)
CZ-DE (50Herz / Tennet)	15:00	22:00
CZ-AT	15:00	22:00
AT-HU	15:00	22:00
HU-RO	15:00	22:00
HU-HR	15:00	22:00
HR-SI	15:00	22:00
PL-DE	15:00	22:00
PL-CZ	15:00	22:00
AT-SI	15:00	22:00
RO-BG	15:00	16:00

Market	Local Gate Opening
Hungary/HUPX	15:00

**Change of Local gate opening from 15:45 to 15:00**

## Current gate closure time

- ▶ 90 minutes before physical delivery

## XBID related change

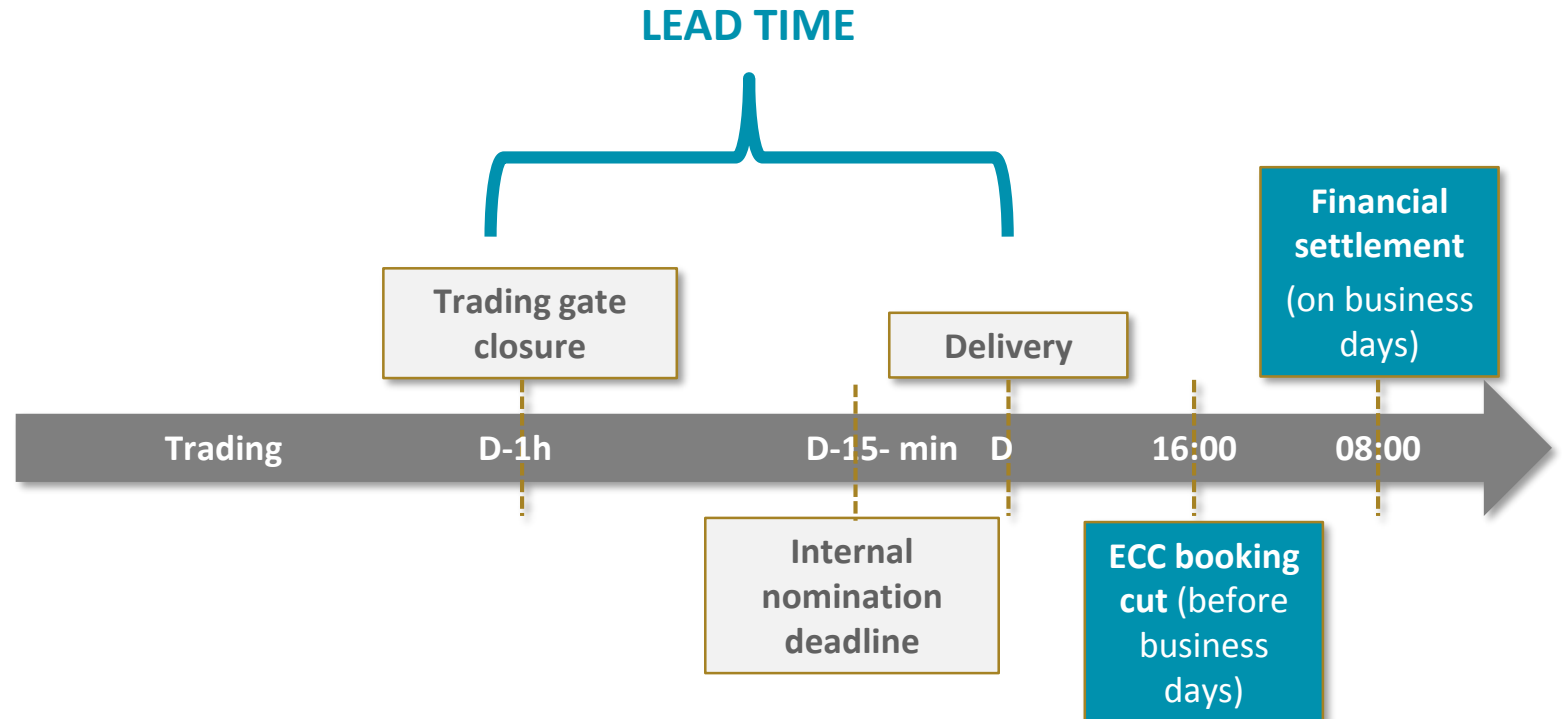
Commercial Code modification submitted by MAVIR to reduce internal nomination deadline to 15 min.

Planned introduction date: 1st November 2019

- ▶ **60 minutes before physical delivery**

1. ECC trade processing and nomination 30 min
2. 15 min for ECC backup
3. TSO procedures 15 min

Buffer to be reconsidered after go-live.



**Gate Closure Time will decrease  
from 90 min to 60 min**



Hourly product will be matched by XBID

Quarter hourly products will be matched locally

OTC registration is available only locally  
**New local OTC hourly product and OTC hourly block product**

Hourly product will be matched cross border  
Decomposition to Quarter Hourly products will cease to exist

**No cross product matching** between Hourly and Quarter Hourly products

We are working on the introduction again

# XBID – The screen

Market Overview
My orders: Cancel all Deactivate all Activate all

Market Overview X
Own Overview
Basket
UDDP
OTC
Capacity data +

Market Overview (Predefined products)

R	Area	Ctrct	Cur	Phas	State	BAcc	OIBid	BIQty	OBid	BQty	BVWA	Bid	Ask
+	MAVIR	16:45-17:00	EUR	CONT	ACTI								
+	MAVIR	17:00-17:15	EUR	CONT	ACTI	90.0			90.0	90.0	43.00	43.00	
+	MAVIR	17:15-17:30	EUR	CONT	ACTI	20.0				20.0	20.00	20.00	
+	MAVIR	17:30-17:45	EUR	CONT	ACTI								45.00
+	MAVIR	17:45-18:00	EUR	CONT	ACTI								40.00
+	MAVIR	18:00-18:15	EUR	CONT	ACTI								40.00
+	MAVIR	18:15-18:30	EUR	CONT	ACTI	40.0			40.0	40.0	20.00	20.00	
+	MAVIR	18:30-18:45	EUR	CONT	ACTI	340.0			340.0	340.0	34.00	34.00	40.00
+	MAVIR	18:45-19:00	EUR	CONT	ACTI								54.00
+	MAVIR	19:00-19:15	EUR	CONT	ACTI	60.0				60.0	56.00	56.00	
+	MAVIR	19:15-19:30	EUR	CONT	ACTI	67.0				67.0	42.00	42.00	
+	MAVIR	19:30-19:45	EUR	CONT	ACTI								20.00
+	MAVIR	19:45-20:00	EUR	CONT	ACTI								20.00
+	MAVIR	20:00-20:15	EUR	CONT	ACTI	60.0			60.0	60.0	23.00	23.00	
+	MAVIR	20:15-20:30	EUR	CONT	ACTI								45.00
+	MAVIR	20:30-20:45	EUR	CONT	ACTI								40.00
+	MAVIR	20:45-21:00	EUR	CONT	ACTI								40.00
+	MAVIR	21:00-21:15	EUR	CONT	ACTI	40.0			78.0	40.0	43.00	43.00	
+	MAVIR	21:15-21:30	EUR	CONT	ACTI								
+	MAVIR	21:30-21:45	EUR	CONT	ACTI								
+	MAVIR	21:45-22:00	EUR	CONT	ACTI								

Market Overview (Predefined products)

R	Area	Ctrct	Cur	Phas	State	BAcc	OIBid	BIQty	OBid	BQty	BVWA	Bid	Ask	AVWA	AQty
+	MAVIR	05-06_XB	EUR	CLSD	ACTI										
+	MAVIR	06-07_XB	EUR	CLSD	ACTI										
+	MAVIR	07-08_XB	EUR	CLSD	ACTI										
+	MAVIR	08-09_XB	EUR	CLSD	ACTI										
+	MAVIR	09-10_XB	EUR	CLSD	ACTI										
+	MAVIR	10-11_XB	EUR	CLSD	ACTI										
+	MAVIR	11-12_XB	EUR	CLSD	ACTI										
+	MAVIR	12-13_XB	EUR	CLSD	ACTI										
+	MAVIR	13-14_XB	EUR	CLSD	ACTI										
+	MAVIR	14-15_XB	EUR	CLSD	ACTI										
+	MAVIR	15-16_XB	EUR	CLSD	ACTI										
+	MAVIR	16-17_XB	EUR	CLSD	ACTI										
+	MAVIR	17-18_XB	EUR	CONT	ACTI	3.6				3.6	0.10	0.10	8.00	8.00	45.0
+	MAVIR	18-19_XB	EUR	CONT	ACTI	7.6				7.6	0.10	0.10	12.30	12.30	20.0
+	MAVIR	19-20_XB	EUR	CONT	ACTI	5.2				5.2	0.10	0.10	9.20	9.20	9.6
+	MAVIR					22.5				17.3	0.10	0.10	47.80	32.80	15.1
+	MAVIR					38.7				16.2	0.10	0.10	54.00	35.09	3.0
+	MAVIR					51.9				13.2	0.10	0.10	54.00	43.67	23.0
+	MAVIR					53.8				1.9	0.10	0.10	54.00	46.89	23.0
+	MAVIR	20-21_XB	EUR	CONT	ACTI	0.6				0.6	0.10	0.10	7.00	7.00	7.4
+	MAVIR	21-22_XB	EUR	CONT	ACTI	6.9				6.9	0.10	0.10	25.40	25.40	37.0
+	MAVIR	22-23_XB	EUR	CONT	ACTI	6.3				6.3	31.00	31.00	97.79	97.79	16.6
+	MAVIR	23-T00_XB	EUR	CONT	ACTI	14.2				14.2	26.26	26.26	35.00	35.00	25.0

+ Expand all Collapse all 5 Status Today Area All Aggregate
+ Expand all Collapse all 5 Status Today Area All Aggregate

Market Overview (User Defined Delivery Period)

R	Area	Ctrct	Cur	Phas	State	BAcc	BQty	BP-VWA	Bid	Ask	AP-VWA	AQty	AAcc	LQty	LPrc
+	MAVIR	15-20_XB	EUR	CLSD	ACTI										
+	MAVIR	16-21_XB	EUR	CLSD	ACTI										
+	MAVIR	18-T10_XB	EUR	CONT	ACTI	50.0	50.0		60.00						
+	MAVIR	20-T06_XB	EUR	CONT	ACTI										
+	MAVIR	20-T01_XB	EUR	CONT	ACTI					50.00		20.0	20.0		

+ Expand all Collapse all 5 Status Today Area All

Message

Market	Time	Priority	Type	Text
HUPX	12.09.2019 15:37:47	HIGH	PRV	Order entered: Buy 18-T10_XB - 50.0 MW for 60.00 EUR.
HUPX	12.09.2019 15:37:11	HIGH	PRV	Order entered: Sell 20-T01_XB - 20.0 MW for 50.00 EUR.
HUPX	12.09.2019 15:36:30	LOW	PUB	Trade HU?: 22-23_XB - 6.7 MW for 31.00 EUR.
HUPX	12.09.2019 15:36:30	LOW	PUB	Trade HU?: 22-23_XB - 6.3 MW for 31.00 EUR.
HUPX	12.09.2019 15:36:30	LOW	PUB	Trade HU?: 22-23_XB - 14.0 MW for 85.00 EUR.
HUPX	12.09.2019 15:35:23	LOW	PUB	Trade HU?: 22-23_XB - 39.0 MW for 85.00 EUR.
HUPX	12.09.2019 15:35:16	LOW	PUB	Trade ?HU: 23-T00_XB - 31.0 MW for 35.00 EUR.
HUPX	12.09.2019 15:34:58	LOW	PUB	Trade HU?: 23-T00_XB - 29.9 MW for 89.01 EUR.
HUPX	12.09.2019 15:34:58	LOW	PUB	Trade HU?: 23-T00_XB - 7.1 MW for 86.40 EUR.
HUPX	12.09.2019 15:34:58	LOW	PUB	Trade HU?: 17-18_XB - 8.0 MW for 23.00 EUR.

+ Low Medium High Critical Urgent

Market: ACTI HUPX: 12.09.2019 15:37:59 CEST (TEST1 / TRC001) Trading Limit: 21877.50 EUR 256MB / 1024MB

# XBID – The screen

Market Overview (Predefined products)

Area	Unit	Cur	Phas	State	BACC	OIBid	BIQty	OIBid	BQty	BVWA	Bid	Ask	AVWA	AC+
MAVIR	18:00-18:15	EUR	CONT	ACTI										
MAVIR	18:15-18:30	EUR	CONT	ACTI										
MAVIR	18:30-18:45	EUR	CONT	ACTI								50.00	50.00	10
MAVIR	18:45-19:00	EUR	CONT	ACTI								44.00	44.00	4
MAVIR	19:00-19:15	EUR	CONT	ACTI										
MAVIR	19:15-19:30	EUR	CONT	ACTI										
MAVIR	19:30-19:45	EUR	CONT	ACTI	6.0			6.0		53.00	53.00			
MAVIR	19:45-20:00	EUR	CONT	ACTI										
MAVIR	20:00-20:15	EUR	CONT	ACTI										
MAVIR	20:15-20:30	EUR	CONT	ACTI										
MAVIR	20:30-20:45	EUR	CONT	ACTI	5.0				5.0	55.00	55.00	56.00	56.00	4
MAVIR	20:45-21:00	EUR	CONT	ACTI	5.0				5.0	51.00	51.00	52.00	52.00	2
MAVIR	21:00-21:15	EUR	CONT	ACTI								51.00	51.00	2
MAVIR	21:15-21:30	EUR	CONT	ACTI										
MAVIR	21:30-21:45	EUR	CONT	ACTI										
MAVIR	21:45-22:00	EUR	CONT	ACTI										
MAVIR	22:00-22:15	EUR	CONT	ACTI	10.0			10.0	10.0	20.00	20.00			
MAVIR	22:15-22:30	EUR	CONT	ACTI								50.00	50.00	5
MAVIR	22:30-22:45	EUR	CONT	ACTI								63.00	63.00	6
MAVIR	22:45-23:00	EUR	CONT	ACTI	5.0				5.0	47.20	47.20			
MAVIR	23:00-23:15	EUR	CONT	ACTI										
MAVIR	23:15-23:30	EUR	CONT	ACTI										
MAVIR	23:30-23:45	EUR	CONT	ACTI										
MAVIR	23:45-T00:00	EUR	CONT	ACTI										

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+	MAVIR	18:00-18:15	EUR	CONT	ACTI										
+	MAVIR	18:15-18:30	EUR	CONT	ACTI										
+	MAVIR	18:30-18:45	EUR	CONT	ACTI								50.00	50.00	10
+	MAVIR	18:45-19:00	EUR	CONT	ACTI								44.00	44.00	4
+	MAVIR	19:00-19:15	EUR	CONT	ACTI										
+	MAVIR	19:15-19:30	EUR	CONT	ACTI										
+	MAVIR	19:30-19:45	EUR	CONT	ACTI	6.0			6.0		53.00	53.00			
+	MAVIR	19:45-20:00	EUR	CONT	ACTI										
+	MAVIR	20:00-20:15	EUR	CONT	ACTI										
+	MAVIR	20:15-20:30	EUR	CONT	ACTI										
+	MAVIR	20:30-20:45	EUR	CONT	ACTI	5.0				5.0	55.00	55.00	56.00	56.00	4
+	MAVIR	20:45-21:00	EUR	CONT	ACTI	5.0				5.0	51.00	51.00	52.00	52.00	2
+	MAVIR	21:00-21:15	EUR	CONT	ACTI							51.00	51.00	51.00	2
+	MAVIR	21:15-21:30	EUR	CONT	ACTI										
+	MAVIR	21:30-21:45	EUR	CONT	ACTI										
+	MAVIR	21:45-22:00	EUR	CONT	ACTI										
+	MAVIR	22:00-22:15	EUR	CONT	ACTI	10.0			10.0	10.0	20.00	20.00			
+	MAVIR	22:15-22:30	EUR	CONT	ACTI								50.00	50.00	5
+	MAVIR	22:30-22:45	EUR	CONT	ACTI								63.00	63.00	6
+	MAVIR	22:45-23:00	EUR	CONT	ACTI	5.0				5.0	47.20	47.20			
+	MAVIR	23:00-23:15	EUR	CONT	ACTI										
+	MAVIR	23:15-23:30	EUR	CONT	ACTI										
+	MAVIR	23:30-23:45	EUR	CONT	ACTI										
+	MAVIR	23:45-T00:00	EUR	CONT	ACTI										

5




 Aggregate

Quarterly\_Local Product

# XBID – The screen

Market Overview (Predefined products)

Area	Cont	Cur	Phas	State	BAcc	OIBid	BIQty	OBid	BQty	BVWA	Bid	Ask	AVWA	AQty
MAVIR	05-06_XB	EUR	CLSD	ACTI										
MAVIR	06-07_XB	EUR	CLSD	ACTI										
MAVIR	07-08_XB	EUR	CLSD	ACTI										
MAVIR	08-09_XB	EUR	CLSD	ACTI										
MAVIR	09-10_XB	EUR	CLSD	ACTI										
MAVIR	10-11_XB	EUR	CLSD	ACTI										
MAVIR	11-12_XB	EUR	CLSD	ACTI										
MAVIR	12-13_XB	EUR	CLSD	ACTI										
MAVIR	13-14_XB	EUR	CLSD	ACTI										
MAVIR	14-15_XB	EUR	CLSD	ACTI										
MAVIR	15-16_XB	EUR	CLSD	ACTI										
MAVIR	16-17_XB	EUR	CLSD	ACTI										
MAVIR	17-18_XB	EUR	CONT	ACTI	3.6				3.6	0.10	0.10	8.00	8.00	45.0
MAVIR	18-19_XB	EUR	CONT	ACTI	7.6				7.6	0.10	0.10	12.30	12.30	20.0
MAVIR	19-20_XB	EUR	CONT	ACTI	5.2				5.2	0.10	0.10	9.20	9.20	9.6
MAVIR	20-21_XB	EUR	CONT	ACTI	0.6				0.6	0.10	0.10	7.00	7.00	7.4
MAVIR	21-22_XB	EUR	CONT	ACTI	6.9				6.9	0.10	0.10	25.40	25.40	23.0
MAVIR	22-23_XB	EUR	CONT	ACTI	6.3				6.3	31.00	31.00	99.13	99.13	34.6
MAVIR	23-T00_XB	EUR	CONT	ACTI	17.4				17.4	24.80	24.80	35.00	35.00	25.0

Market Overview (Predefined products)

Area	Cont	Cur	Phas	State	BAcc	OIBid	BIQty	OBid	BQty	BVWA	Bid	Ask	AVWA	AQty
MAVIR	05-06_XB	EUR	CLSD	ACTI										
MAVIR	06-07_XB	EUR	CLSD	ACTI										
MAVIR	07-08_XB	EUR	CLSD	ACTI										
MAVIR	08-09_XB	EUR	CLSD	ACTI										
MAVIR	09-10_XB	EUR	CLSD	ACTI										
MAVIR	10-11_XB	EUR	CLSD	ACTI										
MAVIR	11-12_XB	EUR	CLSD	ACTI										
MAVIR	12-13_XB	EUR	CLSD	ACTI										
MAVIR	13-14_XB	EUR	CLSD	ACTI										
MAVIR	14-15_XB	EUR	CLSD	ACTI										
MAVIR	15-16_XB	EUR	CLSD	ACTI										
MAVIR	16-17_XB	EUR	CLSD	ACTI										
MAVIR	17-18_XB	EUR	CONT	ACTI	3.6				3.6	0.10	0.10	8.00	8.00	45.0
MAVIR	18-19_XB	EUR	CONT	ACTI	7.6				7.6	0.10	0.10	12.30	12.30	20.0
MAVIR	19-20_XB	EUR	CONT	ACTI	5.2				5.2	0.10	0.10	9.20	9.20	9.6
MAVIR	20-21_XB	EUR	CONT	ACTI	0.6				0.6	0.10	0.10	7.00	7.00	7.4
MAVIR	21-22_XB	EUR	CONT	ACTI	6.9				6.9	0.10	0.10	25.40	25.40	23.0
MAVIR	22-23_XB	EUR	CONT	ACTI	6.3				6.3	31.00	31.00	99.13	99.13	34.6
MAVIR	23-T00_XB	EUR	CONT	ACTI	17.4				17.4	24.80	24.80	35.00	35.00	25.0

+ Expand all - Collapse all 5 Status Today Area All Aggregate

**XBID\_Hour\_Power Product**

# XBID – In case of coupling you see...

Market Overview (Predefined products)

Area	Unit	Cur	Phas	State	BAcc	OIBid	BIQty	OBid	BQty	BVWA
MAVIR	01-02_XB	EUR	CLSD	ACTI						
MAVIR	02-03_XB	EUR	CLSD	ACTI						
MAVIR	03-04_XB	EUR	CLSD	ACTI						
MAVIR	04-05_XB	EUR	CLSD	ACTI						
MAVIR	05-06_XB	EUR	CLSD	ACTI						
MAVIR	06-07_XB	EUR	CLSD	ACTI						
MAVIR	07-08_XB	EUR	CLSD	ACTI						
MAVIR	08-09_XB	EUR	CLSD	ACTI						
MAVIR	09-10_XB	EUR	CLSD	ACTI						
MAVIR	10-11_XB	EUR	CLSD	ACTI						
MAVIR	11-12_XB	EUR	CLSD	ACTI						
MAVIR	12-13_XB	EUR	CLSD	ACTI						
MAVIR	13-14_XB	EUR	CLSD	ACTI						
MAVIR	14-15_XB	EUR	CLSD	ACTI						
MAVIR	15-16_XB	EUR	CLSD	ACTI						
MAVIR	16-17_XB	EUR	CLSD	ACTI						
MAVIR	17-18_XB	EUR	CONT	ACTI	14.4				14.4	0.10
MAVIR	18-19_XB	EUR	CONT	ACTI	74.0				74.0	64.75
MAVIR	19-20_XB	EUR	CONT	ACTI	14.4				14.4	0.10
MAVIR	20-21_XB	EUR	CONT	ACTI	0.6				0.6	0.10
MAVIR	21-22_XB	EUR	CONT	ACTI	13.0				13.0	7.32

Market Overview (Predefined products)

Search

- Hour\_Power\_Local
- Quarterly\_Local
- XBID\_Hour\_Power

R	Area	Ctrlct	Cur	Phas	State	BAcc	OIBid	BIQty	OBid	BQty	BVWA
X	MAVIR	01-02_XB	EUR	CLSD	ACTI						
X	MAVIR	02-03_XB	EUR	CLSD	ACTI						
X	MAVIR	03-04_XB	EUR	CLSD	ACTI						
X	MAVIR	04-05_XB	EUR	CLSD	ACTI						
X	MAVIR	05-06_XB	EUR	CLSD	ACTI						
X	MAVIR	06-07_XB	EUR	CLSD	ACTI						
X	MAVIR	07-08_XB	EUR	CLSD	ACTI						
X	MAVIR	08-09_XB	EUR	CLSD	ACTI						
X	MAVIR	09-10_XB	EUR	CLSD	ACTI						
X	MAVIR	10-11_XB	EUR	CLSD	ACTI						
X	MAVIR	11-12_XB	EUR	CLSD	ACTI						
X	MAVIR	12-13_XB	EUR	CLSD	ACTI						
X	MAVIR	13-14_XB	EUR	CLSD	ACTI						
X	MAVIR	14-15_XB	EUR	CLSD	ACTI						
X	MAVIR	15-16_XB	EUR	CLSD	ACTI						
X	MAVIR	16-17_XB	EUR	CLSD	ACTI						
X	MAVIR	17-18_XB	EUR	CONT	ACTI	14.4				14.4	0.10
X	MAVIR	18-19_XB	EUR	CONT	ACTI	74.0				74.0	64.75
X	MAVIR	19-20_XB	EUR	CONT	ACTI	14.4				14.4	0.10
X	MAVIR	20-21_XB	EUR	CONT	ACTI	0.6				0.6	0.10
X	MAVIR	21-22_XB	EUR	CONT	ACTI	13.0				13.0	7.32

Expand all Collapse all 5 Status Today Area All Aggregate

**XBID\_Hour\_Power Product**



# XBID – In case of decoupling you see...

Area	Contract	Cur	Phas	State	BAcc	OIBid	BIQty	OIBid	BQty	BWVA
MAVIR	17-18_Local	EUR	CONT	ACTI						
MAVIR	18-19_Local	EUR	CONT	ACTI						
MAVIR	19-20_Local	EUR	CONT	ACTI						
MAVIR	20-21_Local	EUR	CONT	ACTI	10.0			10.0	10.0	30.00
MAVIR	21-22_Local	EUR	CONT	ACTI	40.0			40.0	40.0	40.00
MAVIR	22-23_Local	EUR	CONT	ACTI	20.0			20.0	20.0	20.00
MAVIR	23-T00_Local	EUR	CONT	ACTI	60.0			60.0	23.00	

### Market Overview (Predefined products)

Search:

- Hour\_Power\_Local
- Quarterly\_Local

R	+	Area	Contract	Cur	Phas	State	BAcc	OIBid	BIQty	OIBid	BQty	BWVA
X		MAVIR	17-18_Local	EUR	CONT	ACTI						
X		MAVIR	18-19_Local	EUR	CONT	ACTI						
X		MAVIR	19-20_Local	EUR	CONT	ACTI						
X		MAVIR	20-21_Local	EUR	CONT	ACTI	10.0			10.0	10.0	30.00
X		MAVIR	21-22_Local	EUR	CONT	ACTI	40.0			40.0	40.0	40.00
X		MAVIR	22-23_Local	EUR	CONT	ACTI	20.0			20.0	20.0	20.00
X		MAVIR	23-T00_Local	EUR	CONT	ACTI	60.0			60.0	23.00	

+ Expand all - Collapse all 5 Status Today Area All Aggregate

**Hour\_Power\_Local**  
You need to tick it!



# XBID – The screen

Market Overview (Product: product)

Area	Contract	Unit	Phase	Status	Price	Qty	BP-VWA	Bid	Ask	AP-VWA	AQty
MAVIR	18-T00_XB	EUR	CONT	ACTI	44.00	44.00	44.00				
MAVIR	18-T01_XB	EUR	CONT	ACTI	44.00	44.00	44.00				
MAVIR	18-T02_XB	EUR	CONT	ACTI	44.00	44.00	44.00				
MAVIR	18-T03_XB	EUR	CONT	ACTI	44.00	44.00	44.00				
MAVIR	18-T04_XB	EUR	CONT	ACTI	44.00	44.00	44.00				
MAVIR	18-T05_XB	EUR	CONT	ACTI	44.00	44.00	44.00				
MAVIR	18-T06_XB	EUR	CONT	ACTI	44.00	44.00	44.00				
MAVIR	18-T07_XB	EUR	CONT	ACTI	44.00	44.00	44.00				
MAVIR	18-T08_XB	EUR	CONT	ACTI	44.00	44.00	44.00				
MAVIR	18-T09_XB	EUR	CONT	ACTI	44.00	44.00	44.00				
MAVIR	18-T10_XB	EUR	CONT	ACTI	44.00	44.00	44.00				
MAVIR	18-T11_XB	EUR	CONT	ACTI	44.00	44.00	44.00				
MAVIR	18-T12_XB	EUR	CONT	ACTI	44.00	44.00	44.00				
MAVIR	18-T13_XB	EUR	CONT	ACTI	44.00	44.00	44.00				
MAVIR	18-T14_XB	EUR	CONT	ACTI	44.00	44.00	44.00				
MAVIR	18-T15_XB	EUR	CONT	ACTI	44.00	44.00	44.00				
MAVIR	18-T16_XB	EUR	CONT	ACTI	44.00	44.00	44.00				
MAVIR	18-T17_XB	EUR	CONT	ACTI	44.00	44.00	44.00				
MAVIR	18-T18_XB	EUR	CONT	ACTI	44.00	44.00	44.00				
MAVIR	18-T19_XB	EUR	CONT	ACTI	44.00	44.00	44.00				
MAVIR	18-T20_XB	EUR	CONT	ACTI	44.00	44.00	44.00				
MAVIR	18-T21_XB	EUR	CONT	ACTI	44.00	44.00	44.00				
MAVIR	18-T22_XB	EUR	CONT	ACTI	44.00	44.00	44.00				
MAVIR	18-T23_XB	EUR	CONT	ACTI	44.00	44.00	44.00				
MAVIR	19-T00_XB	EUR	CONT	ACTI	5.00	5.00	5.00				
MAVIR	19-T01_XB	EUR	CONT	ACTI	5.00	5.00	5.00				
MAVIR	19-T02_XB	EUR	CONT	ACTI	5.00	5.00	5.00				
MAVIR	19-T03_XB	EUR	CONT	ACTI	5.00	5.00	5.00				
MAVIR	19-T04_XB	EUR	CONT	ACTI	5.00	5.00	5.00				
MAVIR	19-T05_XB	EUR	CONT	ACTI	5.00	5.00	5.00				
MAVIR	19-T06_XB	EUR	CONT	ACTI	5.00	5.00	5.00				
MAVIR	19-T07_XB	EUR	CONT	ACTI	5.00	5.00	5.00				
MAVIR	19-T08_XB	EUR	CONT	ACTI	5.00	5.00	5.00				
MAVIR	19-T09_XB	EUR	CONT	ACTI	5.00	5.00	5.00				
MAVIR	19-T10_XB	EUR	CONT	ACTI	5.00	5.00	5.00				
MAVIR	19-T11_XB	EUR	CONT	ACTI	5.00	5.00	5.00				
MAVIR	19-T12_XB	EUR	CONT	ACTI	5.00	5.00	5.00				
MAVIR	19-T13_XB	EUR	CONT	ACTI	5.00	5.00	5.00				
MAVIR	19-T14_XB	EUR	CONT	ACTI	5.00	5.00	5.00				
MAVIR	19-T15_XB	EUR	CONT	ACTI	5.00	5.00	5.00				
MAVIR	19-T16_XB	EUR	CONT	ACTI	5.00	5.00	5.00				
MAVIR	19-T17_XB	EUR	CONT	ACTI	5.00	5.00	5.00				
MAVIR	19-T18_XB	EUR	CONT	ACTI	5.00	5.00	5.00				
MAVIR	19-T19_XB	EUR	CONT	ACTI	5.00	5.00	5.00				
MAVIR	19-T20_XB	EUR	CONT	ACTI	5.00	5.00	5.00				
MAVIR	20-T00_XB	EUR	CONT	ACTI	70.00	70.00	70.00				
MAVIR	20-T01_XB	EUR	CONT	ACTI	70.00	70.00	70.00				
MAVIR	20-T02_XB	EUR	CONT	ACTI	70.00	70.00	70.00				
MAVIR	20-T03_XB	EUR	CONT	ACTI	70.00	70.00	70.00				
MAVIR	20-T04_XB	EUR	CONT	ACTI	70.00	70.00	70.00				
MAVIR	20-T05_XB	EUR	CONT	ACTI	70.00	70.00	70.00				
MAVIR	20-T06_XB	EUR	CONT	ACTI	70.00	70.00	70.00				
MAVIR	20-T07_XB	EUR	CONT	ACTI	70.00	70.00	70.00				
MAVIR	20-T08_XB	EUR	CONT	ACTI	70.00	70.00	70.00				
MAVIR	20-T09_XB	EUR	CONT	ACTI	70.00	70.00	70.00				
MAVIR	20-T10_XB	EUR	CONT	ACTI	70.00	70.00	70.00				

Market Overview (User Defined Delivery Period)

R	Area	Contract	TmZ	Cur	Phas	State	BAcc	BQty	BP-VWA	Bid	Ask	AP-VWA	AQty
+	MAVIR	18-T00_XB	CET	EUR	CONT	ACTI							
+	MAVIR	18-T23_XB	CET	EUR	CONT	ACTI	10.0	10.0		20.00			
+	MAVIR	19-T00_XB	CET	EUR	CONT	ACTI	5.0	5.0		55.00			
+	MAVIR	20-T03_XB	CET	EUR	CONT	ACTI	5.0	5.0		70.00			

User defined (block) Product

# XBID – Own Overview



Own Overview
My orders: Cancel all Deactivate all Activate all

Market Overview Own Overview X Basket UDDP OTC Capacity data

Own Order

UsrCode	Area	B/S	Trct	TmZ	IQty	Qty	PQty	PPD	SQty	Prc	SPrc	Acct	Sta	ExeRes	ValRes	ValDate	OrdriD	Txt
TRC001	MAVIR	S	16:30-16:45	CET	54.0	54.0			54.0	65.00		P	✓	NON	GFS	12.09.2019 15:30:00	172251	
TRC001	MAVIR	B	17:00-17:15	CET	90.0	90.0			90.0	43.00		P	✓	NON	GFS	12.09.2019 16:00:00	172252	
TRC001	MAVIR	S	17:30-17:45	CET	54.0	54.0			54.0	45.00		P	✓	NON	GFS	12.09.2019 16:30:00	172253	
TRC001	MAVIR	B	18:30-18:45	CET	340.0	340.0			340.0	34.00		P	✓	NON	GFS	12.09.2019 17:30:00	172249	
TRC001	MAVIR	B	20:00-20:15	CET	60.0	60.0			60.0	23.00		P	✓	NON	GFS	12.09.2019 19:00:00	172248	
TRC001	MAVIR	S	20:30-20:45	CET	65.0	65.0			65.0	45.00		P	✓	NON	GFS	12.09.2019 19:30:00	172250	
TRC001	MAVIR	S	20:45-21:00	CET	50.0	50.0	30.0	0.00	30.0	40.00		P	✓	NON	GFS	12.09.2019 19:45:00	172246	
TRC001	MAVIR	B	21:00-21:15	CET	78.0	78.0	40.0	0.00	40.0	43.00		P	✓	NON	GFS	12.09.2019 20:00:00	172247	

Own Trade

UsrCode	UsrName	Area	B/S	Trct	TmZ	Qty	Prc	State	A	Phase	TradeID	OrdriD	ParentTID	Exe Time	Text	StmntState	StmntInfo	P/O
TRC001	TRC001	MAVIR	S	18-19_XB	CET	10.0	19.00	ACTI	P	CONT	1043736	170893		12.09.2019 10:29:28		INIT		O
TRC001	TRC001	MAVIR	B	14-15_XB	CET	10.0	25.00	ACTI	P	CONT	1043690	170891		12.09.2019 10:29:10		INIT		O

Message

Market	Time	Priority	Type	Text
HUPX	12.09.2019 15:26:09	LOW	PUB	Trade ?/HU: 23-T00_XB - 2.7 MW for 35.00 EUR.
HUPX	12.09.2019 15:23:58	LOW	PUB	Trade HU/? : 22-23_XB - 23.0 MW for 85.00 EUR.
HUPX	12.09.2019 15:23:54	LOW	PUB	Trade ?/HU: 23-T00_XB - 4.3 MW for 35.00 EUR.
HUPX	12.09.2019 15:22:12	HIGH	PRV	Order entered: Sell 17:30-17:45 - 54.0 MW for 45.00 EUR.
HUPX	12.09.2019 15:22:06	HIGH	PRV	Order entered: Buy 17:00-17:15 - 90.0 MW for 43.00 EUR.
HUPX	12.09.2019 15:22:05	LOW	PUB	Trade HU/? : 22-23_XB - 11.0 MW for 85.00 EUR.

Trading Limit

Mbr	Type	Trct	Currency	Init	Cur	Start	End
TEST1	cash		EUR	75000.00	69877.50	05.02.2019	

Low 
  Medium 
  High 
  Critical 
  Urgent

Market: ACTI HUPX: 12.09.2019 15:26:47 CEST (TEST1 / TRC001) Trading Limit: 69877.50 EUR 207MB / 1024MB

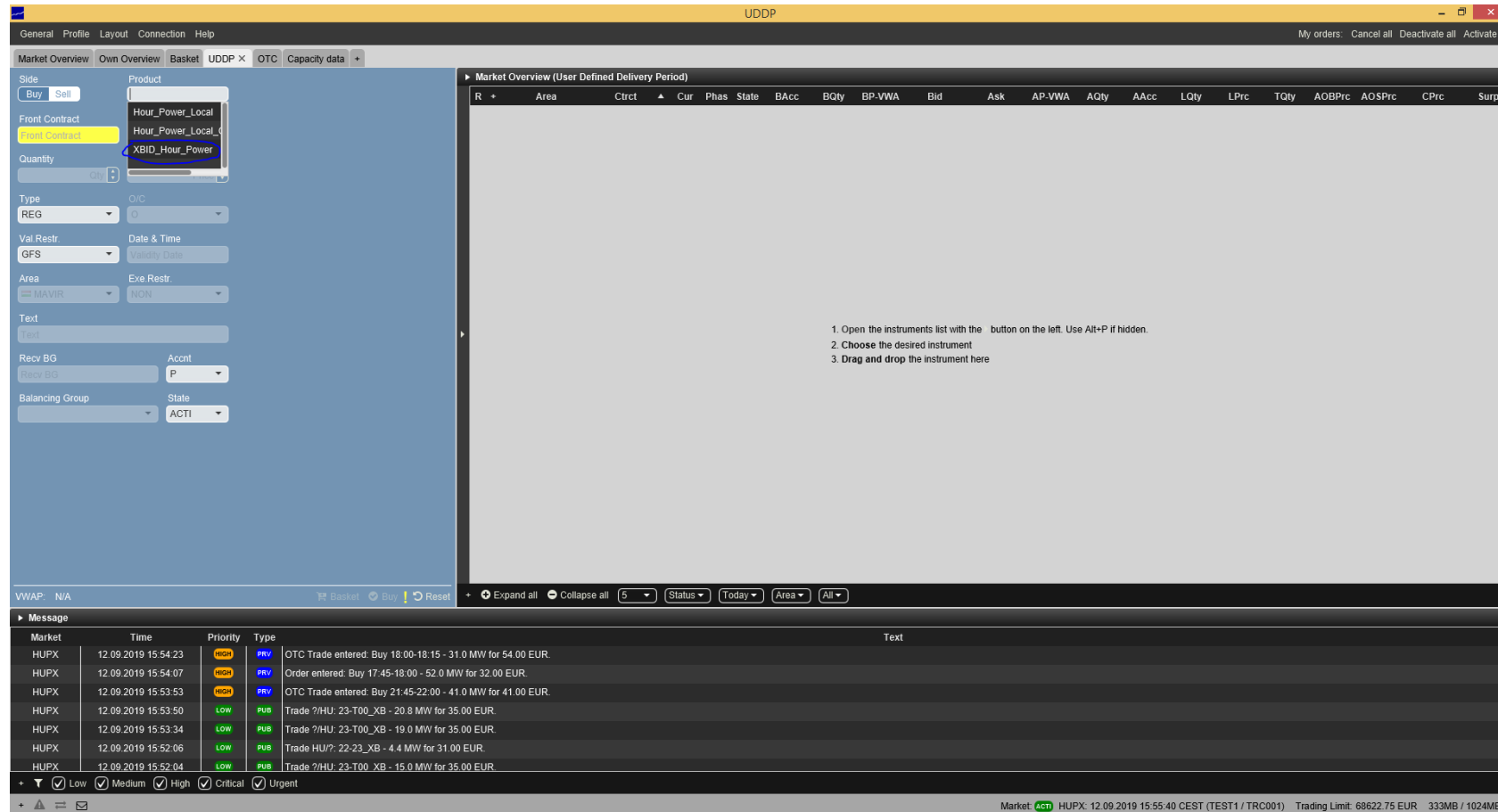
## Options for block submission **in case of coupling:**

- Quarterly\_Local: no block
- **XBID\_Hour\_Power:** via „UDDP” overnight orders are possible
- Hour\_Power\_Local\_OTC\_UD: „UDDP” overnight orders are NOT possible


## Options for block submission **in case of decoupling:**

- Quarterly\_Local: no block
- **Hour\_Power\_Local:** „UDDP” overnight orders are NOT possible
- Hour\_Power\_Local\_OTC\_UD: „UDDP” overnight orders are NOT possible

# XBID – In case of coupling...



The screenshot shows the HUPX UDDP (User Defined Delivery Period) interface. On the left, the 'Product' dropdown menu is open, showing 'Hour\_Power\_Local' and 'XBID\_Hour\_Power' selected. The main area displays a 'Market Overview (User Defined Delivery Period)' table with columns for Area, Ctrct, Cur, Phas, State, BAcc, BQty, BP-VWA, Bid, Ask, AP-VWA, AQty, AAcc, LQty, LPrc, TQty, AOBPrct, AOSPrct, CPrct, and Surpl. Below the table, a message log shows several trade entries for HUPX with details like time, priority, type, and text.

1. Open the instruments list with the  button on the left. Use Alt+P if hidden.  
2. Choose the desired instrument  
3. Drag and drop the instrument here

Market	Time	Priority	Type	Text
HUPX	12.09.2019 15:54:23	HIGH	PRV	OTC Trade entered: Buy 18:00-18:15 - 31.0 MW for 54.00 EUR.
HUPX	12.09.2019 15:54:07	HIGH	PRV	Order entered: Buy 17:45-18:00 - 52.0 MW for 32.00 EUR.
HUPX	12.09.2019 15:53:53	HIGH	PRV	OTC Trade entered: Buy 21:45-22:00 - 41.0 MW for 41.00 EUR.
HUPX	12.09.2019 15:53:50	LOW	PUB	Trade ?/HU: 23-T00_XB - 20.8 MW for 35.00 EUR.
HUPX	12.09.2019 15:53:34	LOW	PUB	Trade ?/HU: 23-T00_XB - 19.0 MW for 35.00 EUR.
HUPX	12.09.2019 15:52:06	LOW	PUB	Trade HU?: 22-23_XB - 4.4 MW for 31.00 EUR.
HUPX	12.09.2019 15:52:04	LOW	PUB	Trade ?/HU: 23-T00_XB - 15.0 MW for 35.00 EUR.

...you can submit XBID\_Hour\_Power

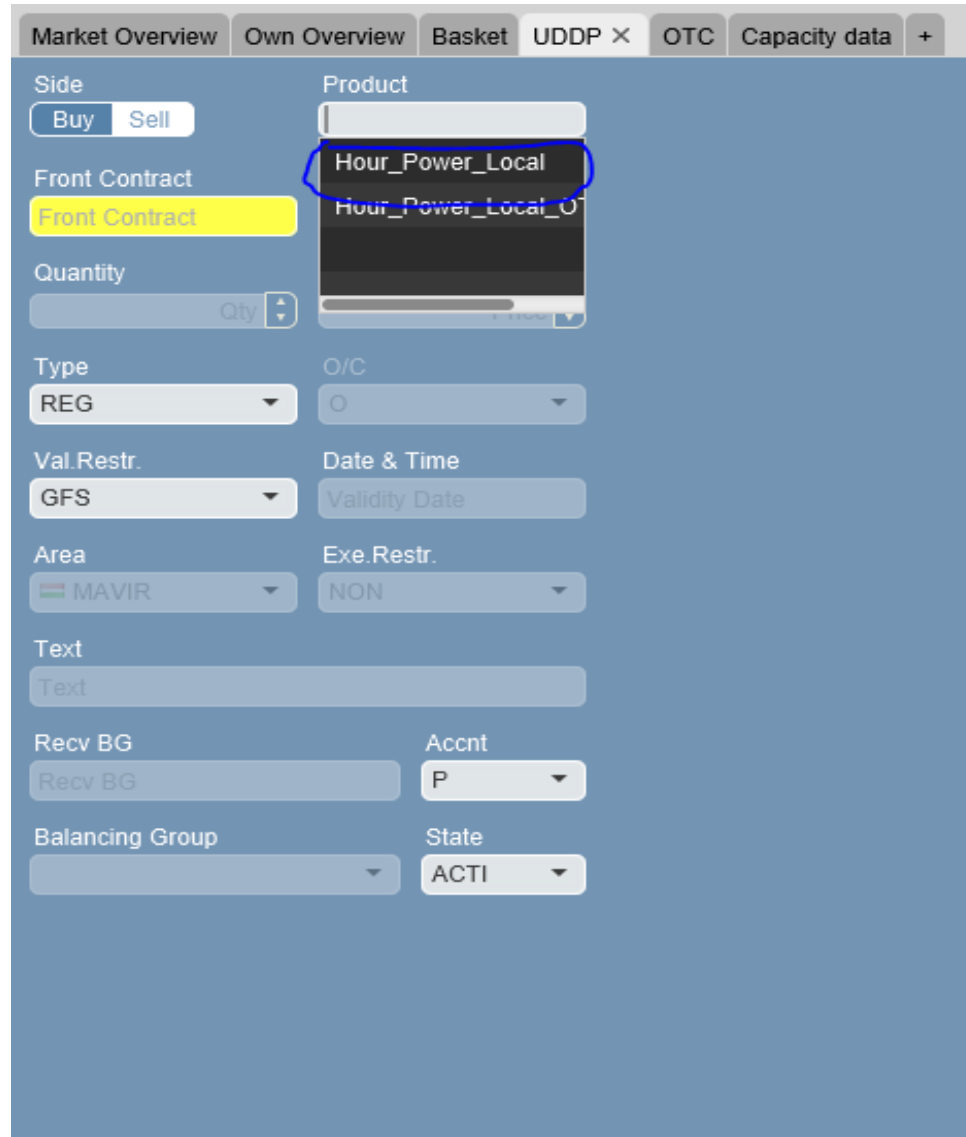
...you can submit  
**Hour\_Power\_Local\_OTC\_UD**



The screenshot shows the HUPX trading interface with the following fields and values:

- Market Overview | Own Overview | Basket | UDDP X | OTC | Capacity data +
- Side: Buy | Sell
- Product: our\_Power\_Local
- Front Contract: our\_Power\_Local\_OTC (highlighted in yellow)
- Quantity: Qty
- Type: REG
- O/C: O
- Val. Restr.: GFS
- Date & Time: Validity Date
- Area: MAVIR
- Exe. Restr.: NON
- Text: Text
- Recv BG: Recv BG
- Acnt: P
- Balancing Group: [empty]
- State: ACTI

...you can submit  
Hour\_Power\_Local



Market Overview Own Overview Basket UDDP × OTC Capacity data +

Side: Buy Sell

Product: Hour\_Power\_Local

Front Contract: Front Contract

Quantity: Qty

Type: REG

Val.Restr.: GFS

Area: MAVIR

Date & Time: Validity Date

Exe.Restr.: NON

Text: Text

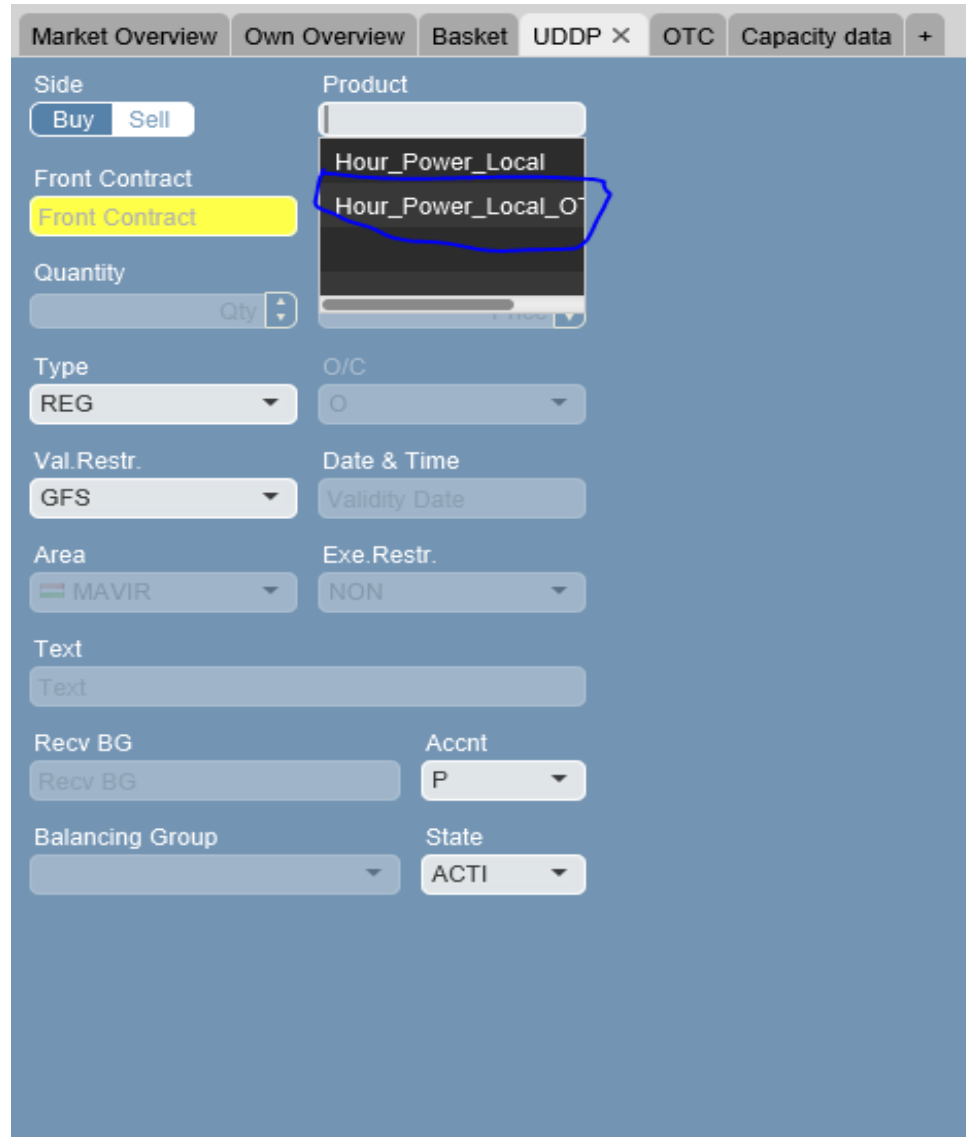
Recv BG: Recv BG

Accnt: P

Balancing Group: [dropdown]

State: ACTI

...you can submit  
**Hour\_Power\_Local\_OTC\_UD**



The screenshot shows the 'UDDP' tab in the trading interface. The 'Product' dropdown menu is open, showing two options: 'Hour\_Power\_Local' and 'Hour\_Power\_Local\_OTC'. The 'Hour\_Power\_Local\_OTC' option is circled in blue. Other fields include 'Side' (Buy/Sell), 'Front Contract' (highlighted in yellow), 'Quantity' (Qty), 'Type' (REG), 'Val.Restr.' (GFS), 'Area' (MAVIR), 'Text', 'Recv BG' (Recv BG), 'Balancing Group', 'O/C' (O), 'Date & Time' (Validity Date), 'Exe.Restr.' (NON), 'Accnt' (P), and 'State' (ACTI).



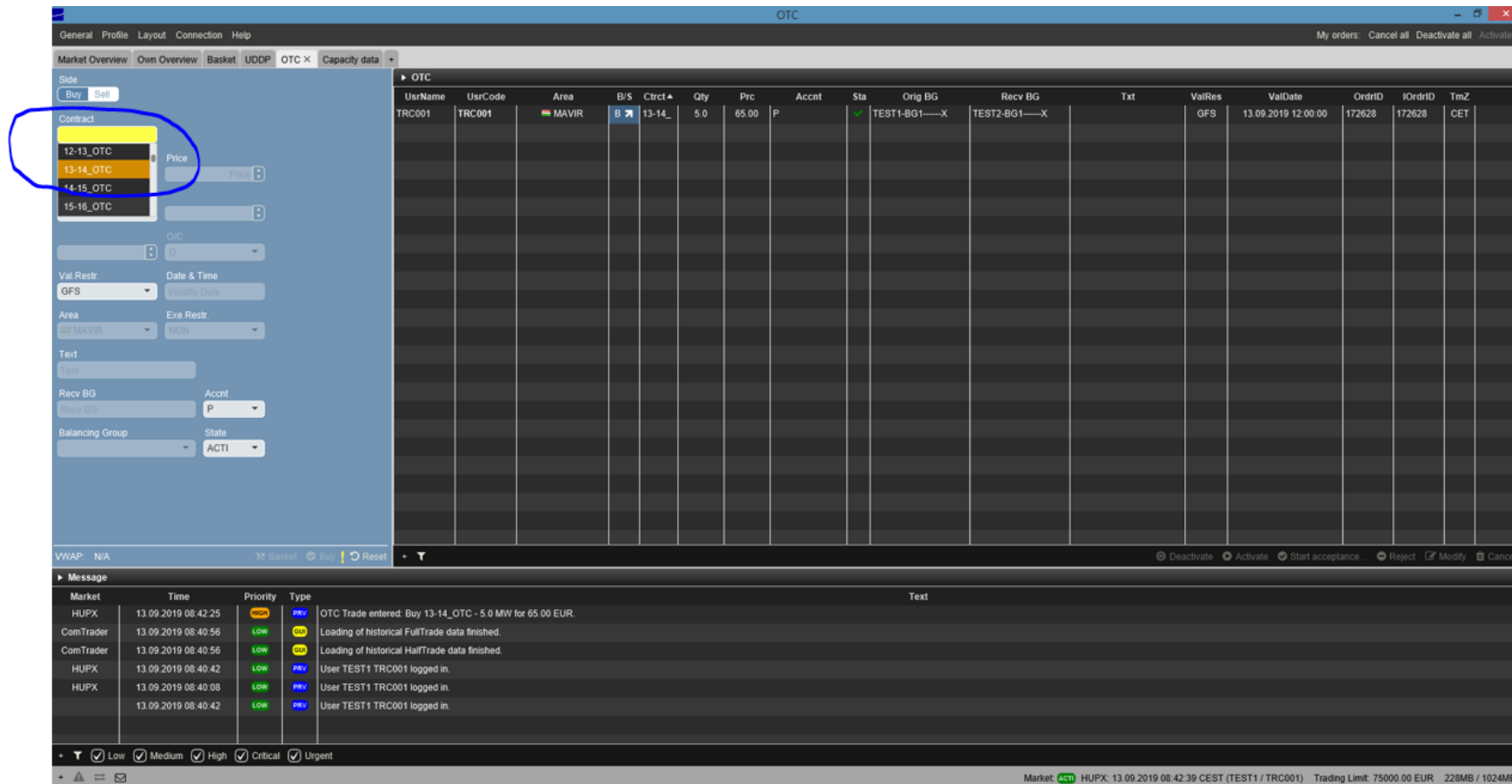
### Options for OTC submission **in case of coupling:**

- Quarterly\_Local: via „Market Overview” and „OTC”
- XBID\_Hour\_Power: no OTC is possible
- Hour\_Power\_Local\_OTC: via „OTC”
- Hour\_Power\_Local\_OTC\_UD: via „UDDP”

### Options for OTC submission **in case of decoupling:**

- No difference to coupling as OTC is possible only locally

## Hour\_Power\_Local\_OTC : via „OTC”



OTC

Market Overview | Own Overview | Basket | UDDP | OTC X | Capacity data

Buy Sell

Contract

- 12-13\_OTC
- 13-14\_OTC**
- 14-15\_OTC
- 15-16\_OTC

Price

OTC

Val Restr. GFS

Area MAVIR

Exe Restr. NON

Text

Recv BG

Balancing Group

UserName	UsrCode	Area	B/S	Ctrct	Qty	Prc	Acct	Sta	Orig BG	Recv BG	Txt	ValRes	ValDate	OrdID	IOrdID	TmZ
TRC001	TRC001	MAVIR	B	13-14_	5.0	65.00	P		TEST1-BG1---X	TEST2-BG1---X		GFS	13.09.2019 12:00:00	172628	172628	CET

Message

Market	Time	Priority	Type	Text
HUPX	13.09.2019 08:42:25	LOW	PRV	OTC Trade entered: Buy 13-14_OTC - 5.0 MW for 65.00 EUR.
ComTrader	13.09.2019 08:40:56	LOW	CTD	Loading of historical FullTrade data finished.
ComTrader	13.09.2019 08:40:56	LOW	CTD	Loading of historical HalfTrade data finished.
HUPX	13.09.2019 08:40:42	LOW	PRV	User TEST1 TRC001 logged in.
HUPX	13.09.2019 08:40:08	LOW	PRV	User TEST1 TRC001 logged in.
HUPX	13.09.2019 08:40:42	LOW	PRV	User TEST1 TRC001 logged in.

Market: **CTD** HUPX: 13.09.2019 08:42:39 CEST (TEST1 / TRC001) Trading Limit: 75000.00 EUR 228MB / 1024MB



Choose contracts with „\_OTC” flag

...and Hour\_Power\_Local\_OTC\_UD  
via UDDP



Market Overview Own Overview Basket UDDP X OTC Capacity data +

Side: Buy Sell

Product: our\_Power\_Local  
our\_Power\_Local\_OTC  
BID\_Hour\_Power

Front Contract: our\_Power\_Local\_OTC

Quantity: Qty

Type: REG O/C: O

Val. Restr.: GFS Date & Time: Validity Date

Area: MAVIR Exe. Restr.: NON

Text: Text

Recv BG: Recv BG Acct: P

Balancing Group: State: ACTI

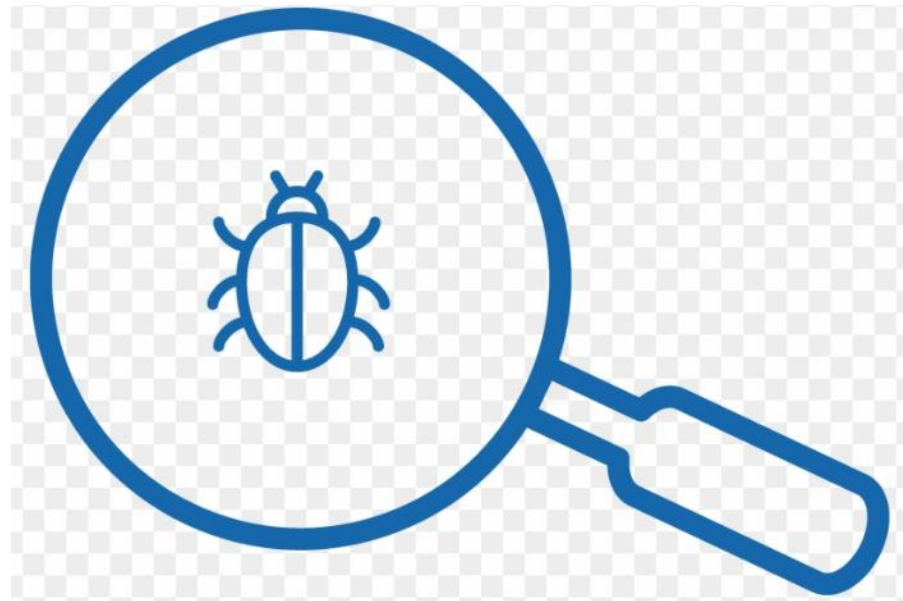
Product	Hourly Coupling: XBID_Hour_Power Decoupling: Hour_Power_Local	Hourly - OTC only Hour_Power_Local_OTC	Quarter Hourly Quarterly_Local
Size	Min vol. Increment 0.1 MW		
Price tick	EUR 0.01 per MWh		
Price range	-9 999 €/MWh to 9 999 €/MWh (EU regulation)		
Type of orders	Regular, Basket, Iceberg	OTC	Regular, Basket, Iceberg, OTC
Execution restriction	NON, IOC, FOK	-	NON, IOC, FOK
Trade recall	NO	NO	YES
Overnight trade	-	-	-

Product	User Defined Coupling: XBID_Hour_Power Decoupling: Hour_Power_Local	User Defined OTC: Hour_Power_Local_OTC_UD
Size	Min vol. Increment 0.1 MW	
Price tick	EUR 0.01 per MWh	
Price range	-9 999 €/MWh to 9 999 €/MWh (EU regulation)	
Type of orders	Regular, Basket,	OTC
Execution restriction	AON, IOC	-
Trade recall	NO	NO
Overnight trade	Only for: XBID_Hour_Power	



No decomposition at all  
No Baseload and  
Peakload block

Testers please pay attention!



1. Sum up the points from last Workshop
  1. Background, how we got here
  2. Market coupling gain
  3. XBID project overview (XBID Common Projects, XBID System, Local Implementation Projects)
2. What will change with the go live of XBID
  1. Cross zonal capacity allocation
  2. Gate opening
  3. Gate closure
  4. Product changes
  5. The screen
- 3. Member testing period**
4. Go-live
5. XBID success

## What is Member test?

- ▶ Member Test Period gives the Market Participant the **opportunity to connect via Local Trading Systems (HUPX M7) to the XBID system.**
- ▶ Member test will be conducted in **production-like conditions**, meaning that following items are configured in accordance with the foreseen go-live configuration:
  - product range;
  - product naming and product scheduling;
- ▶ Post-coupling activities like **nominations are out of scope** of the Member test
- ▶ Operational Messages: the purpose of the Trial Period is to simulate operation as close as possible to the standard production operation. This implies that the systems / HUPX MO will send operational messages.



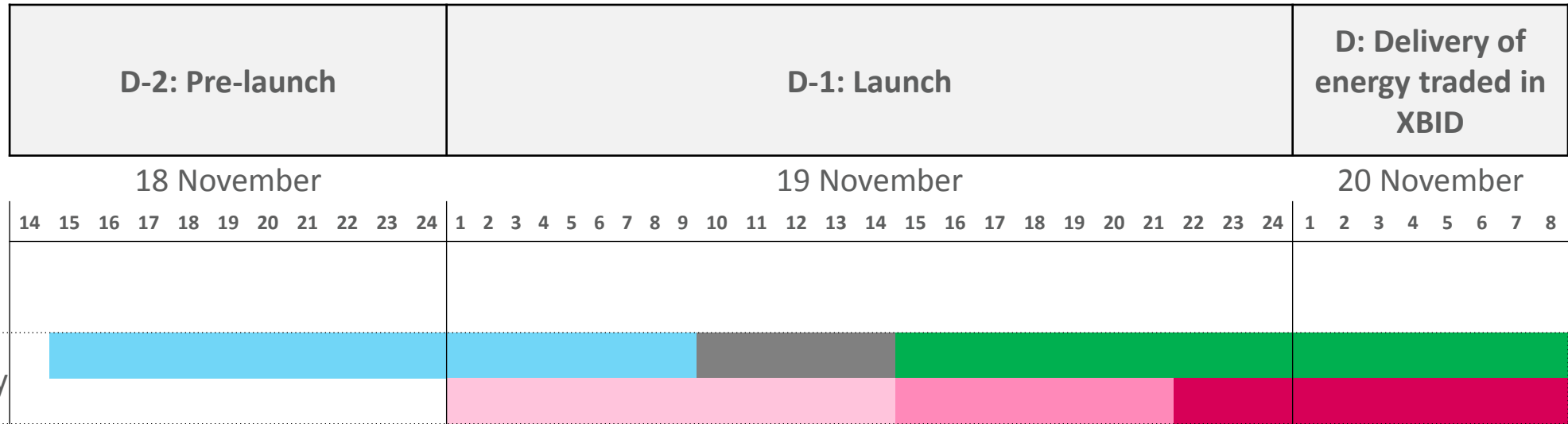
- ▶ Period of execution:
  - ▶ **1st timeslot: 14/10/2019 - 18/10/2019**
    - Mo 14.10.2019                      Normal operations
    - Tu 15.10.2019                      Normal operations
    - We 16.10.2019                      Normal operations + Trade recall and trade cancellation + Closing of market(s)
    - Th 17.10.2019                      Normal operations + Trade recall and trade cancellation + Closing of borders
    - Fr 18.10.2019                      No testing planned
  - ▶ 2nd timeslot: 21/10/2019 - 25/10/2019
  - ▶ 3rd timeslot: 28/10/2019 - 02/11/2019
- ▶ Note: activation of the timeslot is decision of the XBID project week by week. The goal is to execute all related scenarios within the first timeslot.
- ▶ The IT System will be operating on a 24x5 basis during the Trial Period.

During member test in case of question  
HUPX **Market operation** is available:

- ▶ from 9:00 to 17:00 weekdays
- ▶ Phone: +36 1 304 1092
- ▶ E-mail: [idmarketops@hupx.hu](mailto:idmarketops@hupx.hu)



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- Local Market Trading for delivery D-1
- No trading
- Local Market Trading for D
- XBID is running
- Cross borders trading via XBID for delivery D
- Cross borders trading via XBID for delivery D (capacities provided)

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- ▶ No more Cross Border Intraday auction on the concerned borders
- ▶ Cross Border Gate opening time at 15:00, Effective GOT at 22:00
- ▶ Local Gate Opening at 15:00
- ▶ Gate Closure 60 min before delivery
- ▶ Separated Product for OTC matching
- ▶ Clearing and settlement is not influenced by XBID/coupling

Questions?



# Thank you for listening!



**gabriellajuhász**

MARKET DEVELOPMENT EXPERT  
HUPX ZRT.

DÉVAI CENTER  
H-1134 BUDAPEST, DÉVAI UTCA 26-28.  
PHONE: (+36 1) 304 1081 FAX:(+36 1) 304 1099  
GSM: (+36 20) 226 8954  
E-MAIL: JUHASZ@HUPX.HU