

### Monthly Report July 2018

HUPX DAM market reached record traded volume in July. In July the total traded volume increased by 19,75% to 1 759 831,9 MWh compared to 1 469 567,2 MWh in June. The average daily traded volume was 56 768,8 MWh. The highest daily traded volume was 64 262,6 MWh on 31.7.2018. delivery day. The number of admitted members was 57 in the examined month.

#### List of the Members

##### Founder members

- ALPIQ ENERGY SE
- AXPO Trading AG
- AYEN ENERGIJA d.o.o.
- BC-Energiakereskedo Kft.
- Budapesti Eromu Zrt.
- CEZ, a.s.
- CHP-EROMU Kft.
- Citigroup Global Markets Limited
- Danske Commodities A/S
- E.ON Energiakereskedelmi Kft.
- EDF Trading Limited
- EDS International SK

##### Admitted members

- AXPO Trading AG
- AYEN ENERGIJA d.o.o.
- BC-Energiakereskedo Kft.
- Budapesti Eromu Zrt.
- CHP-EROMU Kft.
- Citigroup Global Markets Limited
- E.ON Energiakereskedelmi Kft.
- EDF Trading Limited
- EDS International SK
- Ekologicke Zdroje Energie s.r.o.
- Enel Trade S.p.A.
- Energi Danmark A/S
- ENERGIEALLIANZ Austria GmbH
- Energija Naturalis Int d.o.o.
- Ergo-pro Trading JSC
- Energy Supply EOOD
- Energya VM Gestion De Energia S.L.U.
- EPS Trgovanje, d.o.o.
- EVN Trading South East Europe EAD
- Ezpada s.r.o.
- Freepoint Commodities Europe LLP
- Gazprom Marketing & Trading Ltd
- GDF Suez Trading SAS
- Greenergy-Trade Kft.
- HEP d.d.
- Interenergo d.o.o.
- ISD Power Kft.
- LE Trading a.s.
- MAVIR ZRt.
- MET Austria Energy Trade GmbH
- Monsson Trading S.R.L.
- NEAS Energy A/S
- NKM Aramszolgaltato Zrt
- OAM Ozdi Acelmuvek Kft.
- OMV Gas Marketing & Trading GmbH
- Petrol d.d., Ljubljana
- RIGHT POWER, a.s.
- RWE Supply & Trading GmbH
- SINERGY Energiakereskedő Kft.
- Slovenske elektrarne, a.s.
- TINMAR ENERGY SA
- Trailstone GmbH
- Vattenfall Energy Trading GmbH
- VERBUND AG
- Vitol Gas & Power B.V.

### HUPX Day-Ahead Market

Description	6/2018	7/2018	Change	
HUPX Base Average Price (EUR/MWh)*	51,27	50,95	-0,32	-0,63%
HUPX Peak Average Price (EUR/MWh)*	57,38	53,85	-3,54	-6,16%
HUPX Base Trimmed Mean Price (EUR/MWh)**	51,64	51,52	-0,12	-0,23%
HUPX Peak Trimmed Mean Price (EUR/MWh)**	57,64	54,59	-3,05	-5,29%
OTC Base Trimmed Mean Price (EUR/MWh)**	52,59			
OTC Peak Trimmed Mean Price (EUR/MWh)**	N/A	N/A	N/A	N/A
Trimmed Diff. BL. HUPX↔OTC	1,15			
Trimmed Diff. PL. HUPX↔OTC	N/A	N/A	N/A	N/A

Highest Traded Price (EUR/MWh)	100,00	74,36	-25,64	-25,64%
Lowest Traded Price (EUR/MWh)	18,06	19,99	1,93	10,69%

Total Turnover (EUR)	76 087 585	90 232 171	14 144 586	18,59%
Average Daily Turnover (EUR)	2 536 253	2 910 715	374 462	14,76%
Max. Daily Turnover (EUR)	3 484 138	3 959 682	475 544	13,65%
Min. Daily Turnover (EUR)	1 531 556	1 833 549	301 993	19,72%

Description	6/2018	7/2018	Change	
Total Volume (MWh)	1 469 567,2	1 759 831,9	290 264,7	19,75%
Average Daily Traded Volume (MWh)	48 985,6	56 768,8	7 783,2	15,89%
Highest Daily Traded Volume (MWh)	61 773,6	64 262,6	2 489,0	4,03%
Lowest Daily Traded Volume(MWh)	42 541,0	50 657,3	8 116,3	19,08%
Highest Hourly Traded Volume (MWh)	2 919,2	3 035,0	115,8	3,97%
Lowest Hourly Traded Volume(MWh)	1 155,8	1 698,0	542,2	46,91%
Average Hourly Traded Volume (MWh)	2 041,1	2 365,4	324,3	15,89%

DAM - Weekdays	01-24 (Baseload)	01-24 (Baseload)		
Average Daily Traded Volume (MWh)	48 968,7	56 638,0	7 669,3	15,66%
DAM - Weekend	01-24 (Baseload)	01-24 (Baseload)		
Average Daily Traded Volume (MWh)	49 024,9	57 088,4	8 063,5	16,45%

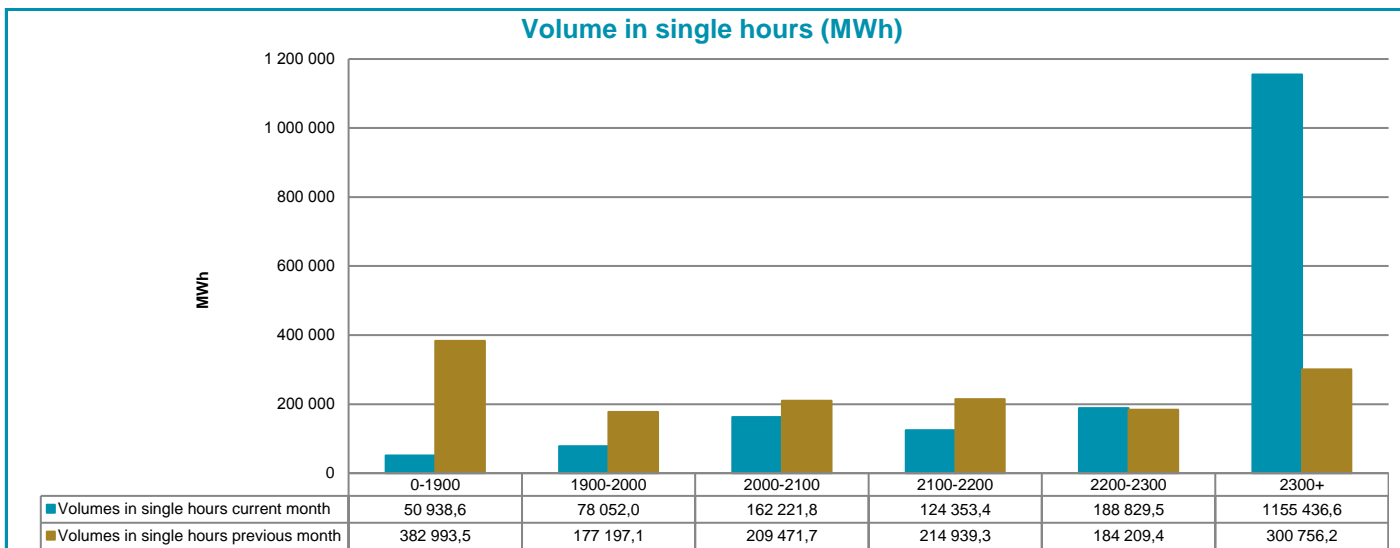
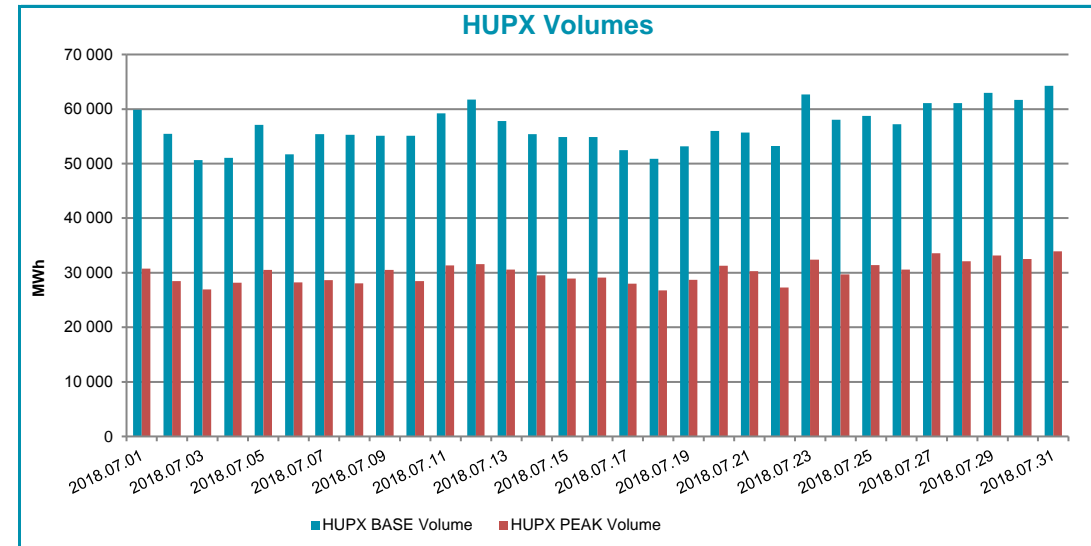
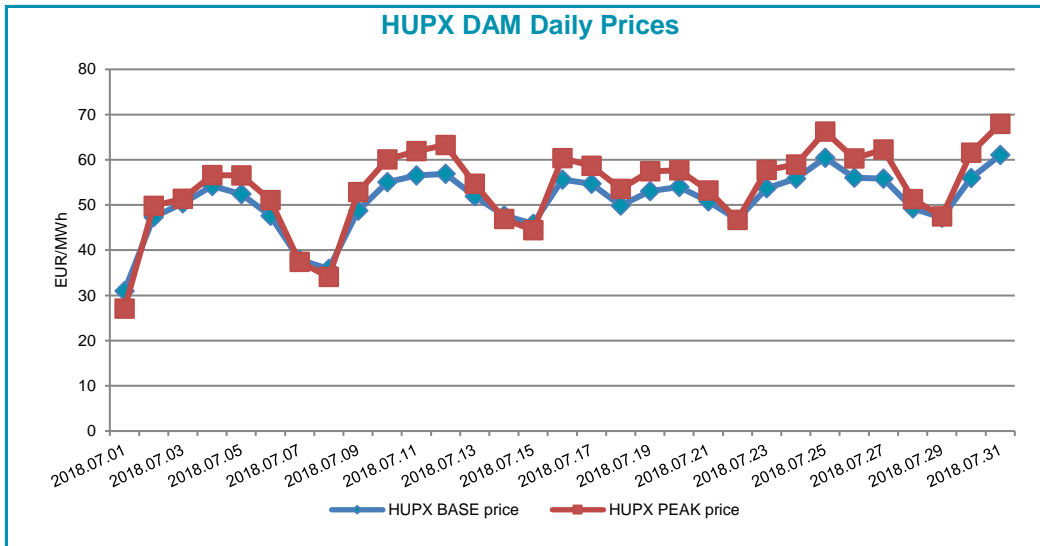
DAM - Weekdays	09-20 (Peakload)	09-20 (Peakload)		
Average Daily Traded Volume (MWh)	26 342,1	30 128,5	3 786,4	14,37%
DAM - Weekend	09-20 (Peakload)	09-20 (Peakload)		
Average Daily Traded Volume (MWh)	25 069,0	29 870,5	4 801,5	19,15%

### Note:

\***The average price** contains all the hourly prices in the examined periods.

\*\***Trimmed Mean** is a special average which shows monthly mean prices considering all prices except for the two lowest and the two highest. We applied this indicator to avoid from distortion of the results. Mean is very sensitive to extreme values.

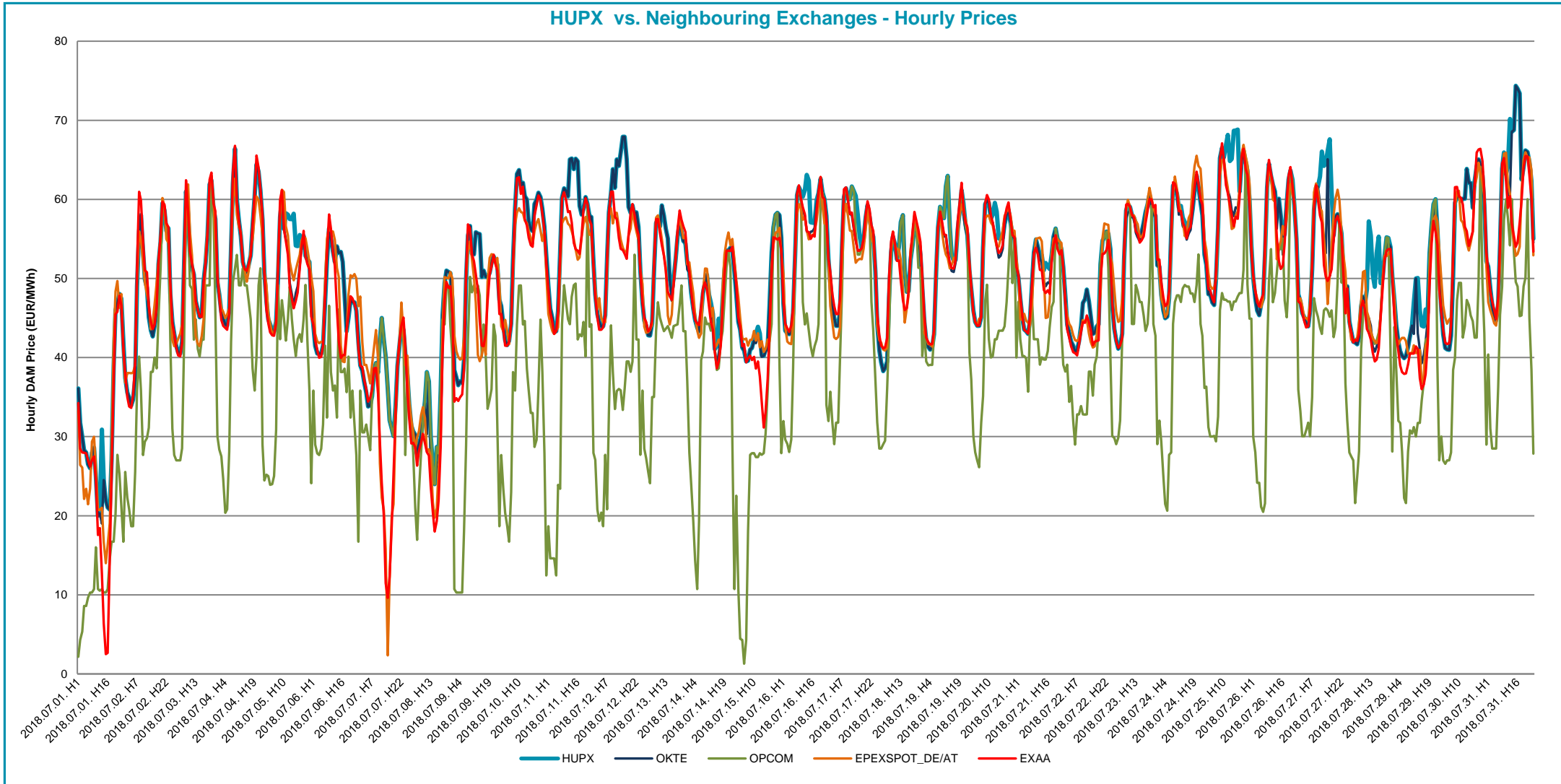
## Prices and volumes



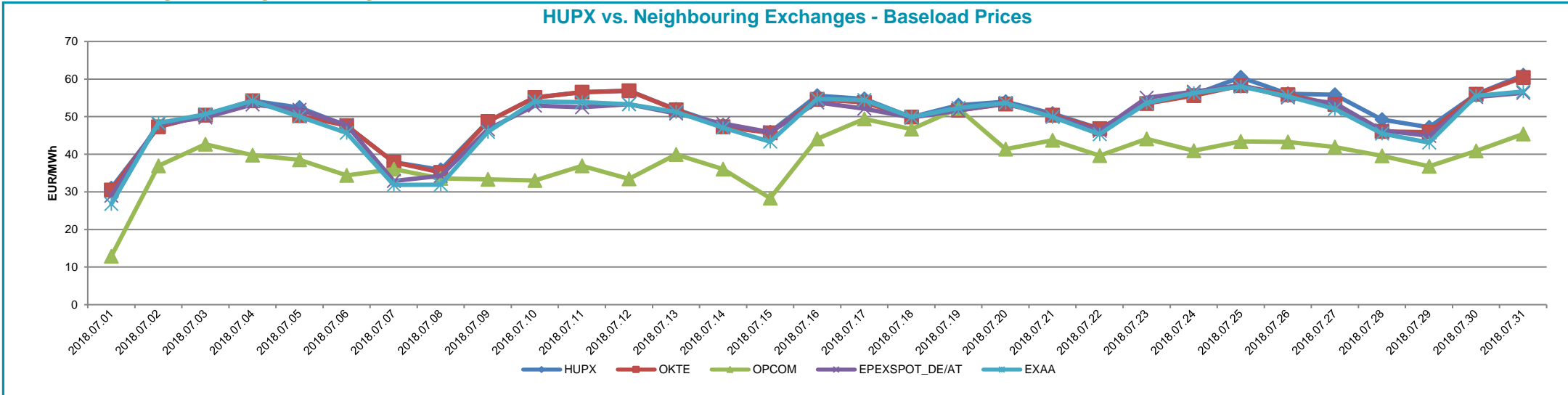
**Note:**

The bar chart shows the traded volumes in single hours in the examined period (01/07/2018-31/07/2018). We categorized the results according to the traded volume of each hour. Compared to the previous month, the distribution of executed volumes shows changes in the traded volumes: the ratio of the range 0-1900 MWh, 1900-2000 MWh, 2000-2100 MWh and 2100-2200 MWh decreased, while the ratio increased regarding the 2200-2300 MWh and 2300+ MWh.

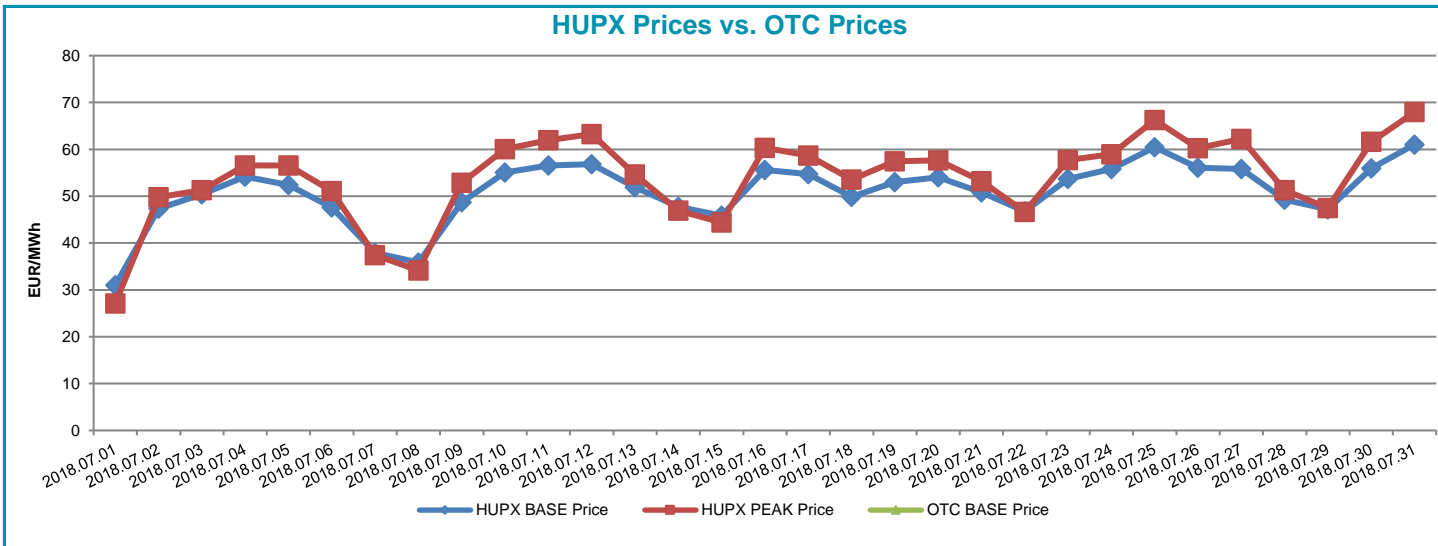
## HUPX vs. Neighbouring Exchanges - Hourly Prices



## HUPX vs. Neighbouring Exchanges - Baseload Prices



## HUPX vs. OTC



Trimmed Diff. BL.	HUPX↔OTC	
Trimmed Diff. PL.	HUPX↔OTC	N/A

### Average of aggregated OFFERS/BIDS 01/07/2018-31/07/2018

Data shown in the table reflects the average hourly aggregated maximum sell and buy volumes, not considering price steps.

Hour	Offers	Bids	Index volumes
H1	3 360,6	3 210,0	2 238,3
H2	3 397,4	3 111,9	2 199,1
H3	3 378,4	3 060,8	2 158,3
H4	3 410,7	3 039,8	2 159,8
H5	3 420,7	3 036,0	2 154,0
H6	3 424,8	3 034,9	2 160,0
H7	3 250,9	3 000,1	2 104,6
H8	3 306,5	3 154,0	2 207,0
H9	3 300,3	3 512,3	2 349,1
H10	3 323,7	3 691,9	2 472,8
H11	3 379,3	3 795,8	2 562,6
H12	3 401,6	3 904,8	2 635,9
H13	3 380,9	3 953,5	2 646,3
H14	3 374,7	3 911,0	2 618,4
H15	3 378,3	3 845,4	2 579,5
H16	3 354,3	3 802,5	2 551,4
H17	3 310,3	3 728,2	2 501,0
H18	3 252,3	3 647,3	2 423,8
H19	3 282,7	3 488,1	2 342,9
H20	3 374,9	3 465,7	2 369,9
H21	3 387,6	3 418,4	2 359,4
H22	3 415,1	3 477,2	2 394,7
H23	3 393,9	3 330,1	2 293,9
H24	3 386,7	3 352,2	2 286,0
<b>Σ</b>	<b>80 646,4</b>	<b>82 971,7</b>	<b>56 768,8</b>

Base	
MIN (offer)	3 250,9
MAX (offer)	3 424,8
MIN (bid)	3 000,1
MAX (bid)	3 953,5
Average (offer)	3 360,3
Average (bid)	3 457,2

Peak	
MIN (offer)	3 252,3
MAX (offer)	3 401,6
MIN (bid)	3 465,7
MAX (bid)	3 953,5
Average (offer)	3 342,8
Average (bid)	3 728,9

### Aggregated OFFERS/BIDS 01/07/2018-31/07/2018

Data shown in the table reflects hourly aggregated maximum sell and buy volumes, not considering price steps.

Hour	Offers	Bids	Index volumes
H1	104 179,1	99 508,5	69 387,2
H2	105 318,1	96 469,6	68 172,8
H3	104 730,8	94 883,4	66 908,4
H4	105 731,0	94 233,0	66 953,5
H5	106 041,9	94 116,6	66 774,7
H6	106 167,5	94 082,7	66 960,8
H7	100 776,6	93 002,2	65 242,8
H8	102 502,3	97 775,4	68 418,3
H9	102 308,6	108 881,9	72 821,1
H10	103 034,9	114 447,8	76 655,5
H11	104 758,4	117 671,1	79 441,7
H12	105 449,6	121 047,6	81 712,5
H13	104 808,1	122 557,1	82 034,4
H14	104 615,4	121 240,0	81 170,5
H15	104 727,8	119 206,2	79 965,9
H16	103 984,3	117 877,3	79 092,7
H17	102 619,9	115 573,4	77 530,6
H18	100 820,5	113 065,2	75 138,2
H19	101 762,6	108 131,0	72 630,9
H20	104 620,4	107 436,0	73 468,1
H21	105 015,5	105 971,0	73 141,2
H22	105 867,2	107 793,2	74 234,5
H23	105 210,8	103 231,8	71 110,4
H24	104 987,2	103 919,7	70 865,2
<b>Σ</b>	<b>2 500 038,5</b>	<b>2 572 121,7</b>	<b>1 759 831,9</b>

Base	
MIN (offer)	100 776,6
MAX (offer)	106 167,5
MIN (bid)	93 002,2
MAX (bid)	122 557,1
Average (offer)	104 168,3
Average (bid)	107 171,7

Peak	
MIN (offer)	100 820,5
MAX (offer)	105 449,6
MIN (bid)	107 436,0
MAX (bid)	122 557,1
Average (offer)	103 625,9
Average (bid)	115 594,6

# HUPX DAM

## Traded Volume By Portfolios

