

## Monthly Report August 2017

In August the total traded volume decreased by 5,38% to 1 416 565,5 MWh compared to 1 497 052,8 MWh in July. The average daily traded volume was 45 695,7 MWh. The highest daily traded volume was 52 864,9 MWh on 3.8.2017. delivery day. The number of admitted members was 60 in the examined month.

### List of the Members

#### Founder members

- ALPIQ ENERGY SE
- CEZ, a.s.
- Danske Commodities A/S
- ELMŰ-ÉMÁSZ Energiakereskedő Kft.
- Energy Financing Team (Switzerland) AG
- GEN-I, trgovanje in prodaja elektricne energije, d.o.o.
- Holding Slovenske Elektrarne d.o.o.
- JAS Budapest Zrt.
- Matrai Eromu Zrt.
- MVM Partner Zrt.
- Statkraft Markets GmbH
- Uniper Global Commodities SE

#### Admitted members

- AXPO Trading AG
- AYEN ENERGIJA d.o.o.
- BC-Energiakereskedő Kft.
- Budapesti Eromu Zrt.
- CHP-EROMU Kft.
- Citigroup Global Markets Limited
- DEMASZ Zrt.
- Dufenergy S.A.
- E.ON Energiakereskedelmi Kft.
- EDF Trading Limited
- Edison Trading S.p.A.
- EDS International SK
- 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.
- JWM Energia Sp. Z.o.o.
- LE Trading a.s.
- MAVIR Zrt.
- MET Austria Energy Trade GmbH
- Monsson Trading S.R.L.
- NEAS Energy A/S
- OAM Ozdi Acelmuvek Kft.
- OMV Gas Marketing & Trading GmbH
- Petrol d.d., Ljubljana
- RIGHT POWER, a.s.
- RWE Supply & Trading GmbH
- SINERGY Energiakereskedő Kft.
- TEI Energy S.p.A.
- TINMAR ENERGY SA
- Trailstone GmbH
- Vattenfall Energy Trading GmbH
- VERBUND AG
- Vitol Gas & Power B.V.
- VPP ENERGY Eromu-uzemelteto es Kereskedelmi Zrt.

### HUPX Day-Ahead Market

Description	7/2017	8/2017	Change	
HUPX Base Average Price (EUR/MWh)*	51,86	58,31	6,46	12,45%
HUPX Peak Average Price (EUR/MWh)*	60,32	69,91	9,59	15,90%
HUPX Base Trimmed Mean Price (EUR/MWh)**	51,87	58,00	6,12	11,81%
HUPX Peak Trimmed Mean Price (EUR/MWh)**	60,14	69,64	9,50	15,80%
OTC Base Trimmed Mean Price (EUR/MWh)**	51,70	59,87	8,18	15,82%
OTC Peak Trimmed Mean Price (EUR/MWh)**	N/A	N/A	N/A	N/A
Trimmed Diff. BL. HUPX↔OTC	-0,27	2,24	2,51	-923,36%
Trimmed Diff. PL. HUPX↔OTC	N/A	N/A	N/A	N/A

Highest Traded Price (EUR/MWh)	106,38	125,04	18,66	17,54%
Lowest Traded Price (EUR/MWh)	12,92	6,86	-6,06	-46,90%

Total Turnover (EUR)	76 626 693	82 791 293	6 164 600	8,04%
Average Daily Turnover (EUR)	2 471 829	2 670 687	198 858	8,04%
Max. Daily Turnover (EUR)	3 887 004	5 082 833	1 195 829	30,76%
Min. Daily Turnover (EUR)	1 649 798	1 085 578	-564 219	-34,20%

Description	7/2017	8/2017	Change	
Total Volume (MWh)	1 497 052,8	1 416 565,5	-80 487,3	-5,38%
Average Daily Traded Volume (MWh)	48 292,0	45 695,7	-2 596,4	-5,38%
Highest Daily Traded Volume (MWh)	62 017,8	52 864,9	-9 152,9	-14,76%
Lowest Daily Traded Volume(MWh)	41 782,7	37 828,7	-3 954,0	-9,46%
Highest Hourly Traded Volume (MWh)	3 156,6	2 591,1	-565,5	-17,91%
Lowest Hourly Traded Volume(MWh)	1 373,6	1 182,6	-191,0	-13,91%
Average Hourly Traded Volume (MWh)	2 012,2	1 904,0	-108,2	-5,38%

DAM - Weekdays	01-24 (Baseload)	01-24 (Baseload)		
Average Daily Traded Volume (MWh)	47 985,2	46 529,4	-1 455,8	-3,03%
DAM - Weekend	01-24 (Baseload)	01-24 (Baseload)		
Average Daily Traded Volume (MWh)	48 936,4	43 298,7	-5 637,7	-11,52%

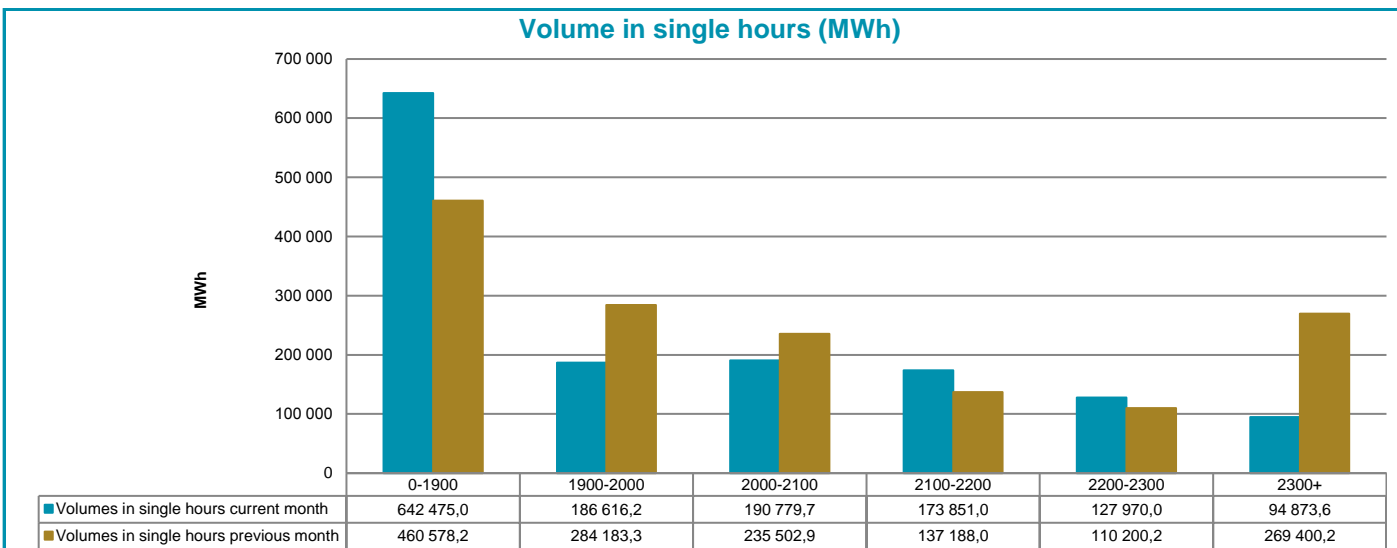
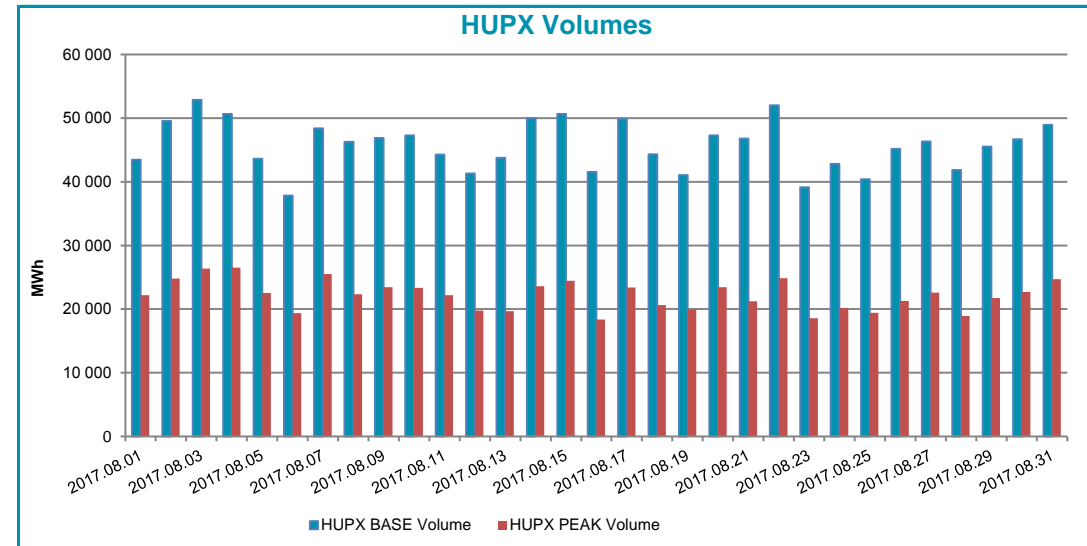
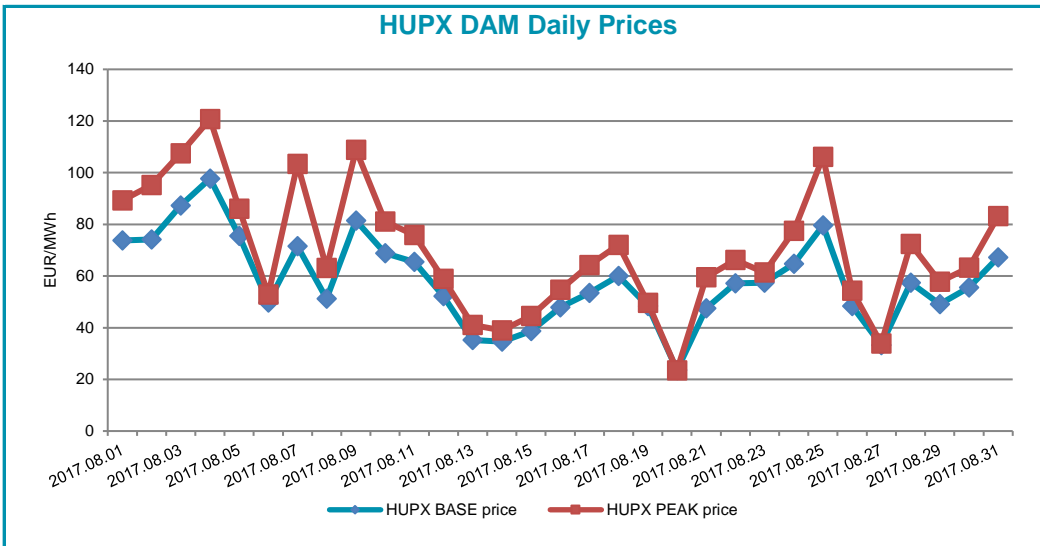
DAM - Weekdays	09-20 (Peakload)	09-20 (Peakload)		
Average Daily Traded Volume (MWh)	23 610,2	22 585,5	-1 024,7	-4,34%
DAM - Weekend	09-20 (Peakload)	09-20 (Peakload)		
Average Daily Traded Volume (MWh)	23 592,0	21 073,3	-2 518,7	-10,68%

### 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.

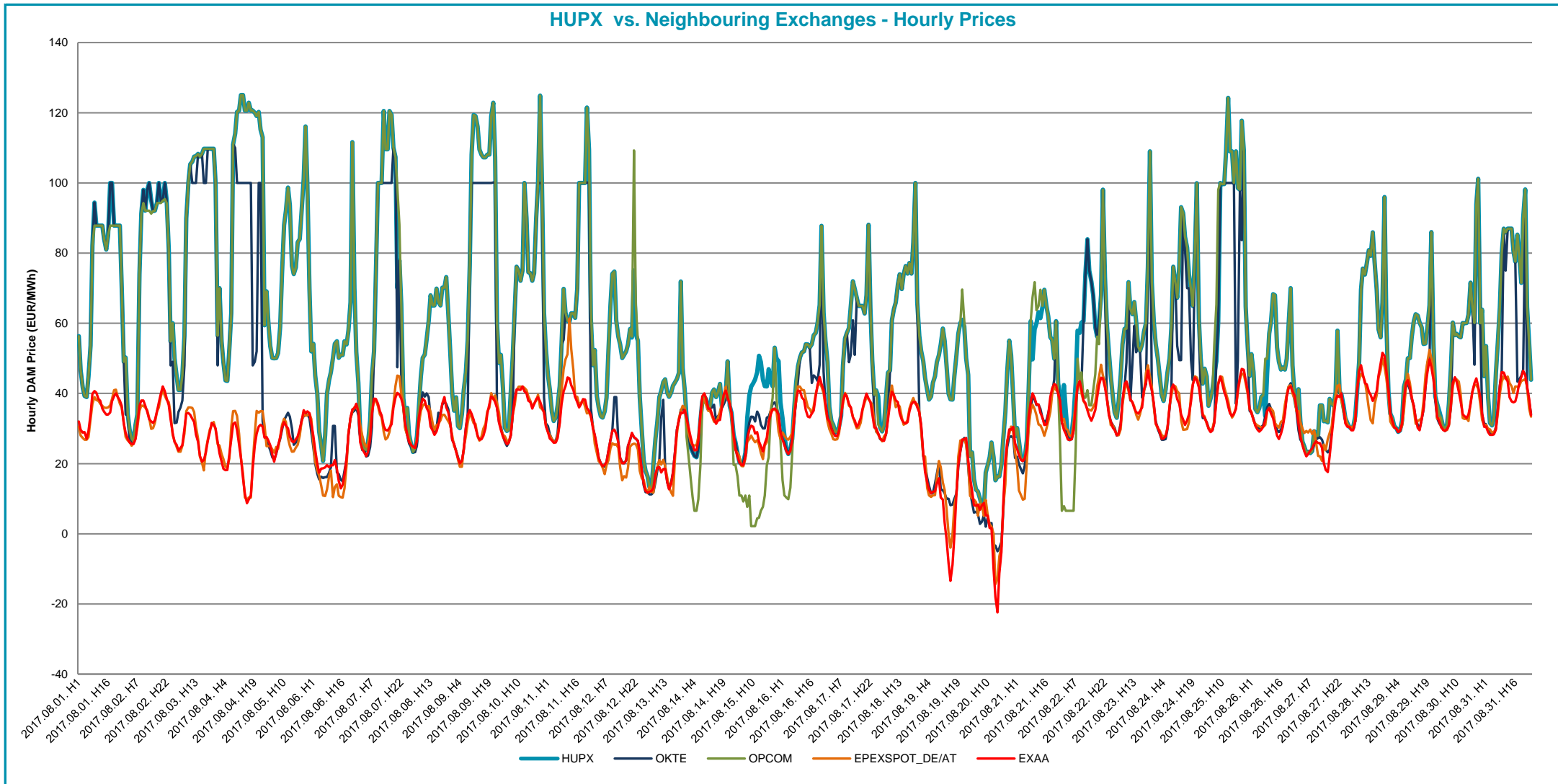
## Prices and volumes



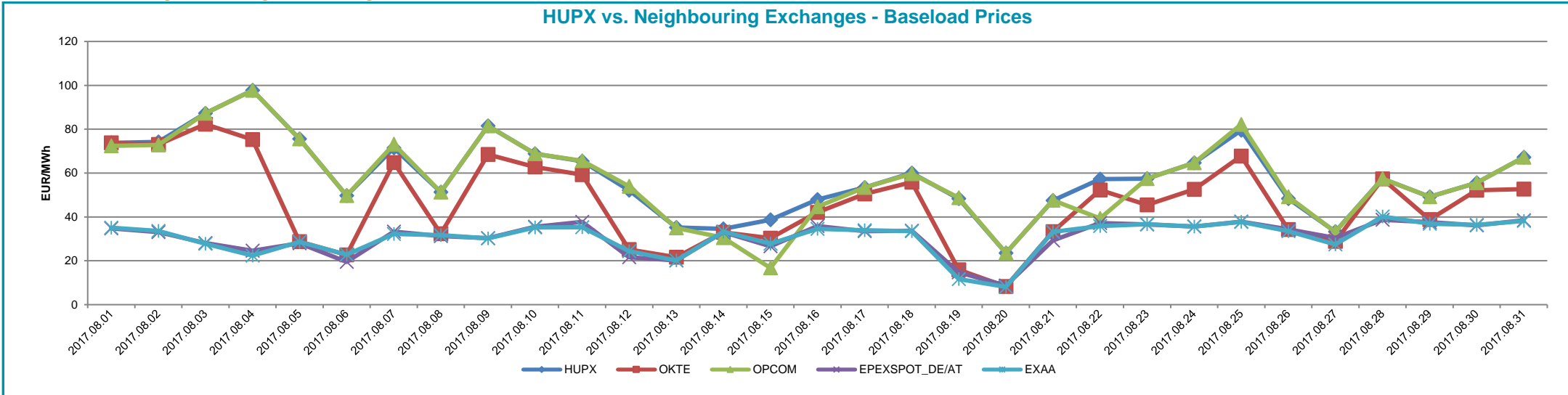
**Note:**

The bar chart shows the traded volumes in single hours in the examined period (01/08/2017-31/08/2017). 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 1900-2000 MWh, 2000-2100 MWh and 2300+ MWh decreased, while the ratio increased regarding the 0-1900 MWh, 2100-2200 MWh and 2200-2300 MWh.

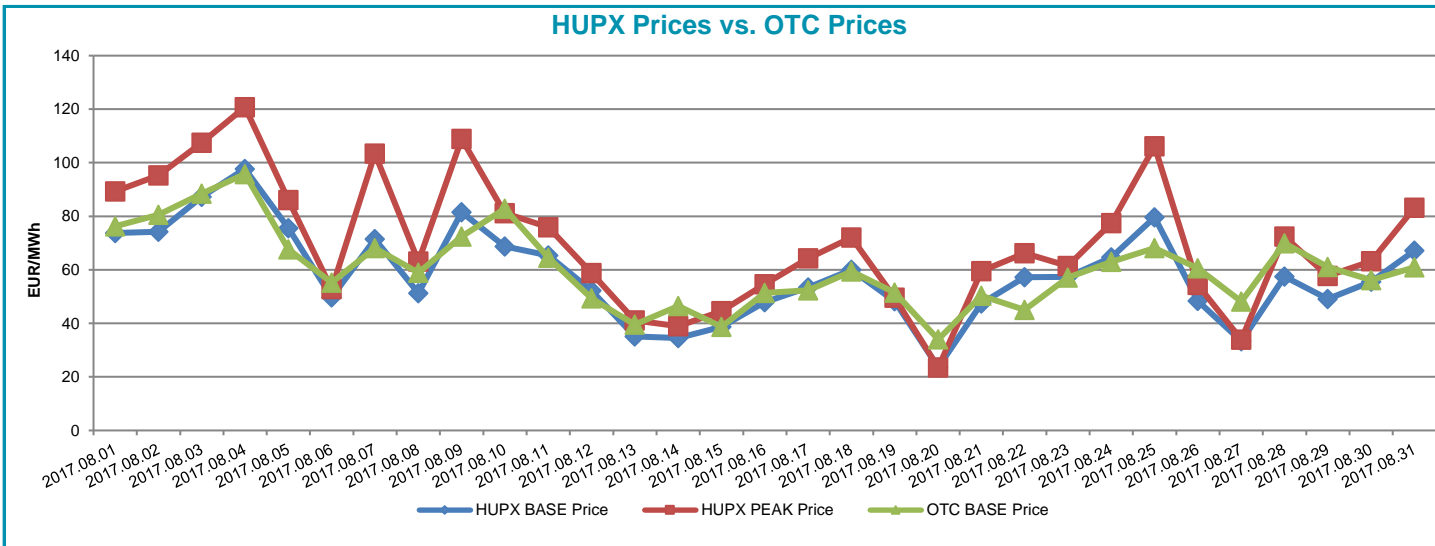
## HUPX vs. Neighbouring Exchanges - Hourly Prices



## HUPX vs. Neighbouring Exchanges - Baseload Prices



## HUPX vs. OTC



Trimmed Diff. BL.	HUPX↔OTC	2,24
Trimmed Diff. PL.	HUPX↔OTC	N/A

### Average of aggregated OFFERS/BIDS 01/08/2017-31/08/2017

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	2 435,9	3 420,1	1 910,1
H2	2 615,8	3 349,1	2 030,0
H3	2 720,7	3 280,7	2 064,4
H4	2 734,0	3 216,8	2 047,6
H5	2 686,0	3 217,7	2 019,6
H6	2 542,4	3 255,7	1 938,9
H7	2 385,2	3 319,3	1 880,7
H8	2 377,6	3 526,2	1 925,6
H9	2 162,7	3 551,7	1 739,8
H10	2 171,2	3 659,8	1 780,4
H11	2 227,8	3 705,2	1 846,6
H12	2 273,1	3 773,5	1 890,0
H13	2 252,7	3 784,8	1 883,4
H14	2 265,7	3 721,1	1 867,3
H15	2 258,1	3 677,3	1 848,1
H16	2 277,2	3 672,2	1 860,7
H17	2 267,4	3 691,0	1 862,5
H18	2 272,2	3 654,4	1 850,5
H19	2 293,3	3 671,3	1 858,6
H20	2 355,4	3 709,2	1 907,3
H21	2 382,7	3 865,6	2 048,4
H22	2 471,3	3 658,8	2 009,9
H23	2 327,6	3 480,7	1 807,6
H24	2 560,9	3 383,3	1 817,7
<b>Σ</b>	<b>57 316,9</b>	<b>85 245,3</b>	<b>45 695,7</b>

Base	
MIN (offer)	2 162,7
MAX (offer)	2 734,0
MIN (bid)	3 216,8
MAX (bid)	3 865,6
Average (offer)	2 388,2
Average (bid)	3 551,9

Peak	
MIN (offer)	2 162,7
MAX (offer)	2 355,4
MIN (bid)	3 551,7
MAX (bid)	3 784,8
Average (offer)	2 256,4
Average (bid)	3 689,3

### Aggregated OFFERS/BIDS 01/08/2017-31/08/2017

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

Hour	Offers	Bids	Index volumes
H1	75 513,8	106 023,1	59 213,5
H2	81 089,9	103 821,7	62 929,0
H3	84 341,8	101 700,4	63 996,1
H4	84 755,0	99 721,9	63 474,7
H5	83 265,0	99 748,3	62 606,2
H6	78 813,3	100 928,2	60 106,3
H7	73 940,0	102 896,8	58 300,2
H8	73 704,3	109 312,2	59 694,2
H9	67 044,5	110 102,8	53 934,3
H10	67 307,0	113 452,5	55 192,8
H11	69 060,8	114 861,1	57 244,8
H12	70 466,5	116 979,0	58 591,1
H13	69 835,2	117 328,6	58 384,0
H14	70 236,3	115 353,3	57 885,6
H15	70 000,0	113 995,8	57 291,2
H16	70 594,5	113 837,3	57 682,1
H17	70 289,6	114 420,9	57 738,2
H18	70 439,1	113 286,5	57 365,6
H19	71 092,6	113 810,3	57 616,8
H20	73 016,9	114 986,6	59 127,2
H21	73 863,0	119 832,8	63 500,0
H22	76 609,6	113 421,5	62 306,4
H23	72 156,5	107 900,2	56 036,5
H24	79 387,5	104 883,0	56 348,7
<b>Σ</b>	<b>1 776 822,7</b>	<b>2 642 604,8</b>	<b>1 416 565,5</b>

Base	
MIN (offer)	67 044,5
MAX (offer)	84 755,0
MIN (bid)	99 721,9
MAX (bid)	119 832,8
Average (offer)	74 034,3
Average (bid)	110 108,5

Peak	
MIN (offer)	67 044,5
MAX (offer)	73 016,9
MIN (bid)	110 102,8
MAX (bid)	117 328,6
Average (offer)	69 948,6
Average (bid)	114 367,9