

Monthly Report April 2017

In April the total traded volume increased by 0,28% to 1 579 041,8 MWh compared to 1 574 587,6 MWh in March. The average daily traded volume was 52 634,7 MWh. The highest daily traded volume was 70 908,5 MWh on 29.4.2017. delivery day. This is a record daily traded volume since the launch of HUPX DAM market. The number of admitted members was 59 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

New members

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.
- Energo-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 Acelmuevek Kft.
- OMV Trading GmbH
- Petrol d.d., Ljubljana
- 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	3/2017	4/2017	Change	
HUPX Base Average Price (EUR/MWh)*	37,90	39,67	1,77	4,68%
HUPX Peak Average Price (EUR/MWh)*	42,74	42,05	-0,69	-1,62%
HUPX Base Trimmed Mean Price (EUR/MWh)**	37,88	40,10	2,22	5,85%
HUPX Peak Trimmed Mean Price (EUR/MWh)**	42,54	42,40	-0,14	-0,33%
OTC Base Trimmed Mean Price (EUR/MWh)**	37,89	39,39	1,50	3,95%
OTC Peak Trimmed Mean Price (EUR/MWh)**	N/A	N/A	N/A	N/A
Trimmed Diff. BL. HUPX↔OTC	0,12	-0,74	-0,86	-724,34%
Trimmed Diff. PL. HUPX↔OTC	N/A	N/A	N/A	N/A

Highest Traded Price (EUR/MWh)	73,60	69,32	-4,28	-5,82%
Lowest Traded Price (EUR/MWh)	7,60	7,40	-0,20	-2,63%

Total Turnover (EUR)	60 171 999	63 502 713	3 330 713	5,54%
Average Daily Turnover (EUR)	1 942 072	2 116 757	174 685	8,99%
Max. Daily Turnover (EUR)	2 809 474	3 390 517	581 043	20,68%
Min. Daily Turnover (EUR)	1 109 334	993 009	-116 325	-10,49%

Description	3/2017	4/2017	Change	
Total Volume (MWh)	1 574 587,6	1 579 041,8	4 454,2	0,28%
Average Daily Traded Volume (MWh)	50 806,0	52 634,7	1 828,7	3,60%
Highest Daily Traded Volume (MWh)	60 199,6	70 908,5	10 708,9	17,79%
Lowest Daily Traded Volume(MWh)	38 719,2	42 939,1	4 219,9	10,90%
Highest Hourly Traded Volume (MWh)	2 914,0	3 404,6	490,6	16,84%
Lowest Hourly Traded Volume(MWh)	1 267,2	1 284,1	16,9	1,33%
Average Hourly Traded Volume (MWh)	2 119,2	2 193,1	73,9	3,49%

DAM - Weekdays	01-24 (Baseload)	01-24 (Baseload)		
Average Daily Traded Volume (MWh)	50 064,4	53 691,1	3 626,7	7,24%
DAM - Weekend	01-24 (Baseload)	01-24 (Baseload)		
Average Daily Traded Volume (MWh)	52 888,2	50 521,9	-2 366,3	-4,47%

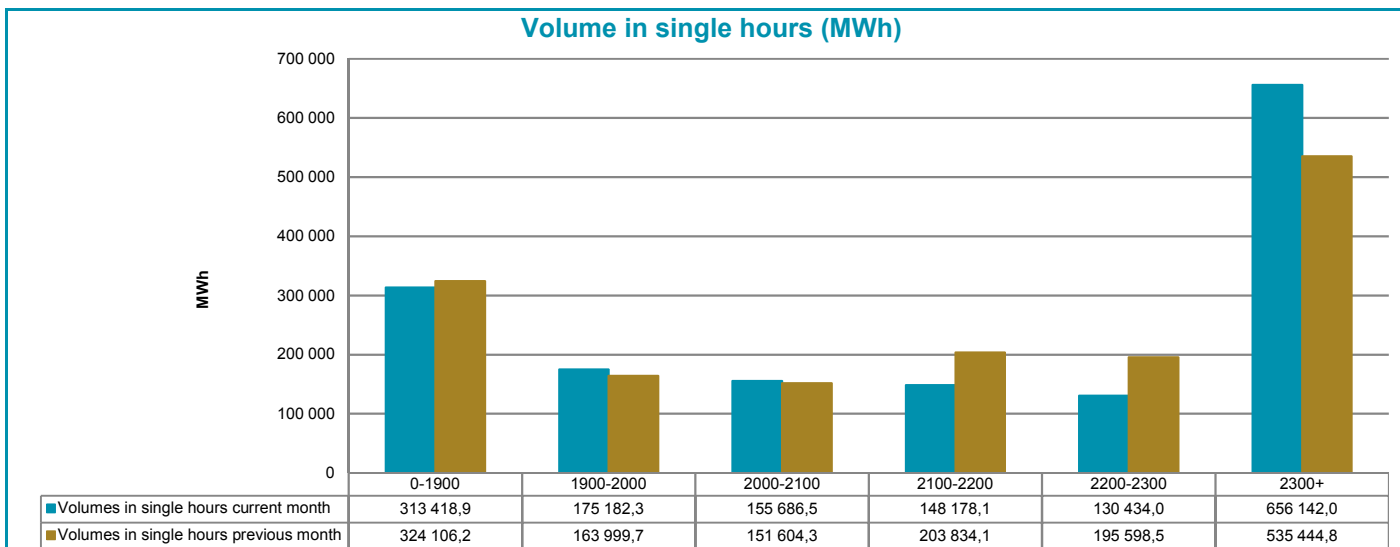
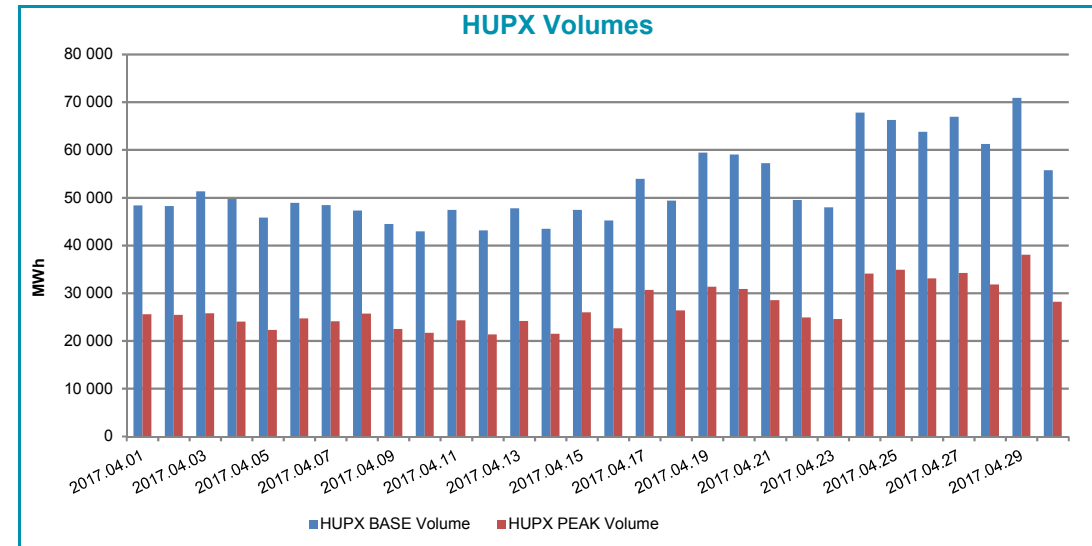
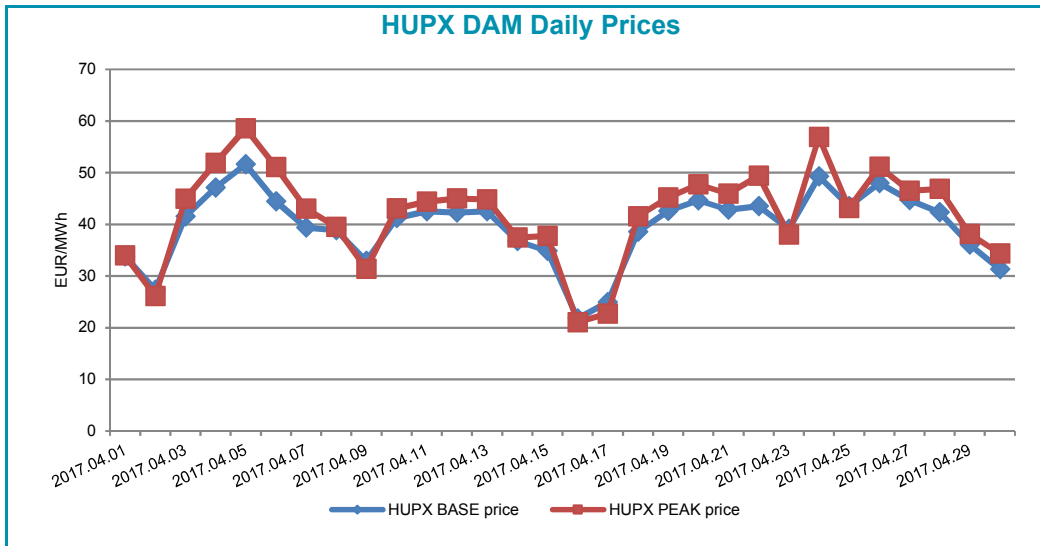
DAM - Weekdays	09-20 (Peakload)	09-20 (Peakload)		
Average Daily Traded Volume (MWh)	24 915,7	27 477,1	2 561,3	10,28%
DAM - Weekend	09-20 (Peakload)	09-20 (Peakload)		
Average Daily Traded Volume (MWh)	27 850,9	26 337,7	-1 513,3	-5,43%

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.

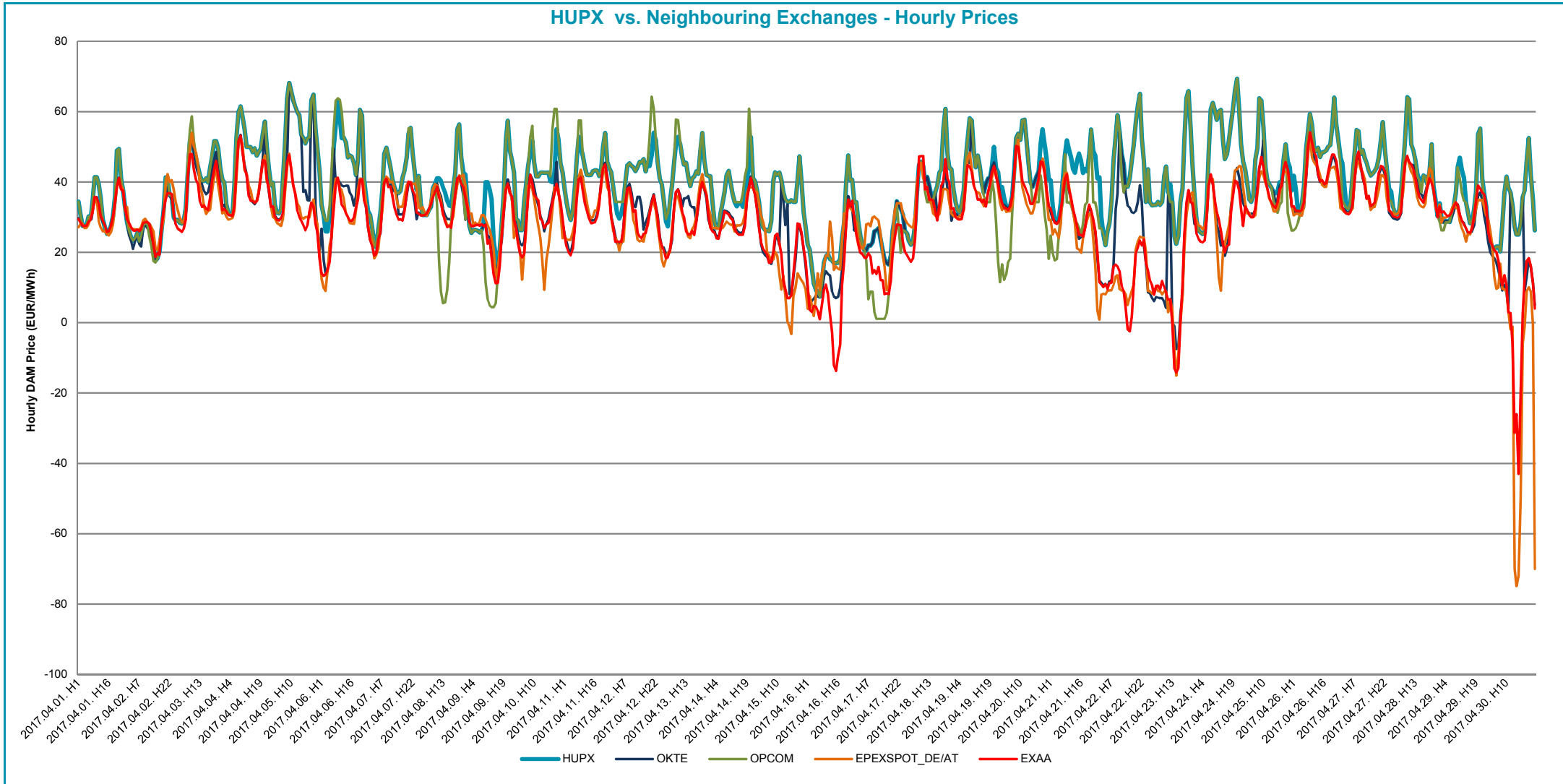
Prices and volumes



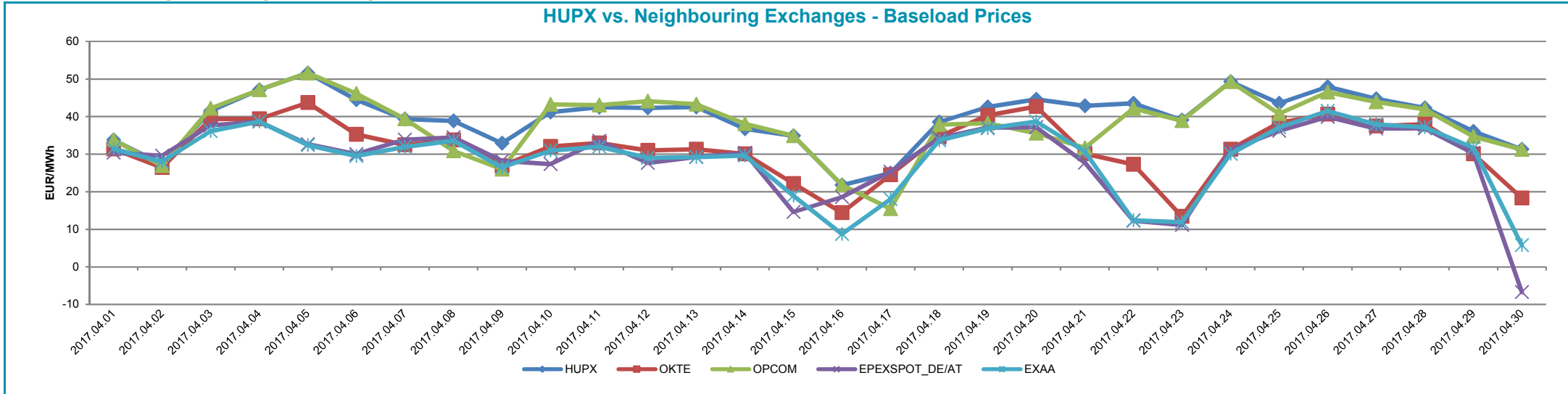
Note:

The bar chart shows the traded volumes in single hours in the examined period (01/04/2017-30/04/2017). 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 0-1900 MWh, 2100-2200 MWh and 2200-2300 MWh decreased, while the ratio increased regarding the 1900-2000 MWh, 2000-2100 MWh and 2300+ MWh.

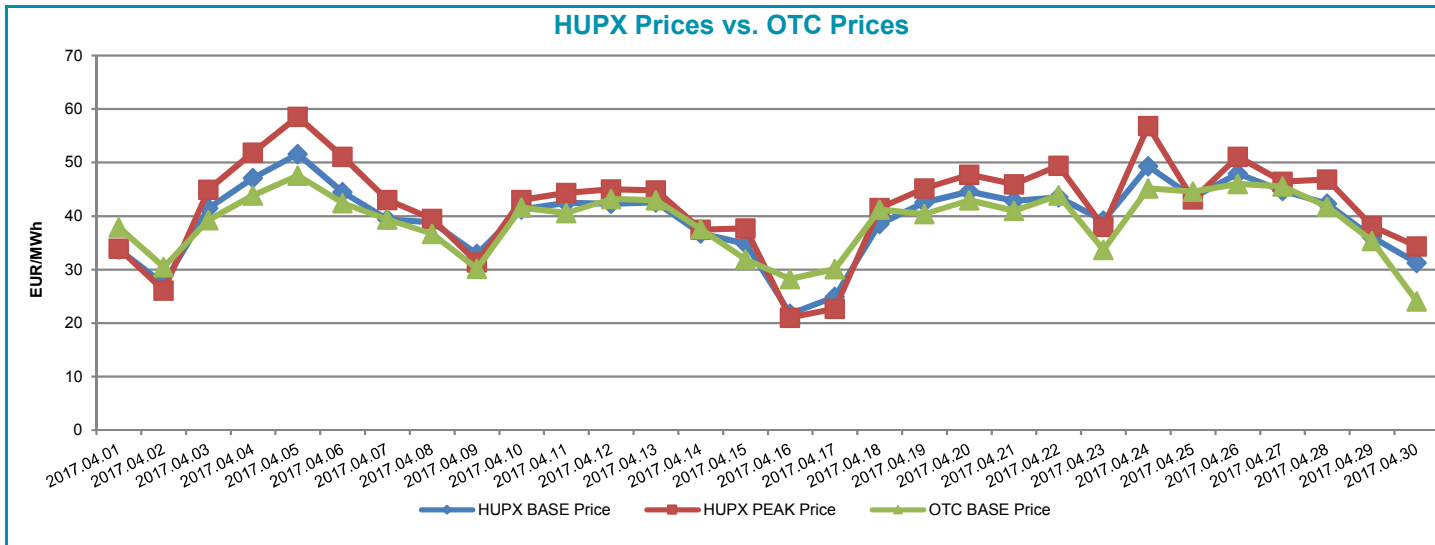
HUPX vs. Neighbouring Exchanges - Hourly Prices



HUPX vs. Neighbouring Exchanges - Baseload Prices



HUPX vs. OTC



Trimmed Diff. BL.	HUPX↔OTC	-0,74
Trimmed Diff. PL.	HUPX↔OTC	N/A

Average of aggregated OFFERS/BIDS 01/04/2017-30/04/2017

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	2 875,3	3 466,8	2 138,0
H2	2 975,3	3 307,5	2 139,9
H3	2 946,3	3 087,9	2 005,4
H4	2 915,5	3 024,8	1 955,7
H5	2 833,5	3 030,7	1 939,2
H6	2 737,5	3 161,0	1 959,1
H7	2 764,9	3 462,6	2 098,1
H8	2 796,2	3 762,5	2 267,8
H9	2 650,5	4 029,3	2 233,0
H10	2 683,7	4 088,6	2 286,8
H11	2 723,3	4 097,6	2 277,8
H12	2 755,3	4 119,6	2 299,5
H13	2 735,2	4 147,6	2 329,4
H14	2 717,1	4 050,6	2 273,2
H15	2 746,6	4 019,2	2 264,8
H16	2 765,5	4 015,1	2 249,2
H17	2 764,1	3 978,4	2 249,7
H18	2 696,7	3 917,6	2 184,8
H19	2 745,9	3 890,8	2 196,0
H20	2 702,0	4 062,9	2 253,0
H21	2 781,6	4 034,8	2 371,4
H22	2 842,4	3 821,0	2 236,4
H23	2 836,5	3 801,1	2 214,7
H24	3 149,3	3 649,4	2 211,9
Σ	67 140,1	90 027,3	52 634,7

Base	
MIN (offer)	2 650,5
MAX (offer)	3 149,3
MIN (bid)	3 024,8
MAX (bid)	4 147,6
Average (offer)	2 797,5
Average (bid)	3 751,1

Peak	
MIN (offer)	2 650,5
MAX (offer)	2 765,5
MIN (bid)	3 890,8
MAX (bid)	4 147,6
Average (offer)	2 723,8
Average (bid)	4 034,8

Aggregated OFFERS/BIDS 01/04/2017-30/04/2017

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

Hour	Offers	Bids	Index volumes
H1	86 257,9	104 003,0	64 138,9
H2	89 258,9	99 225,3	64 196,0
H3	88 388,6	92 638,3	60 162,4
H4	87 466,0	90 744,6	58 670,4
H5	85 004,3	90 920,4	58 176,2
H6	82 125,1	94 831,1	58 771,9
H7	82 948,1	103 877,7	62 942,4
H8	83 886,0	112 875,4	68 035,4
H9	79 514,3	120 878,3	66 990,2
H10	80 511,3	122 658,8	68 604,7
H11	81 700,2	122 928,5	68 335,0
H12	82 658,5	123 587,4	68 983,6
H13	82 055,6	124 429,1	69 881,4
H14	81 512,4	121 516,5	68 195,9
H15	82 398,7	120 575,4	67 944,0
H16	82 964,6	120 452,4	67 476,7
H17	82 922,5	119 352,6	67 489,7
H18	80 901,8	117 528,1	65 545,4
H19	82 378,4	116 724,6	65 879,8
H20	81 060,2	121 885,5	67 591,3
H21	83 446,8	121 043,8	71 140,5
H22	85 271,5	114 630,2	67 093,2
H23	85 094,2	114 032,1	66 440,3
H24	94 477,9	109 480,8	66 356,5
Σ	2 014 203,8	2 700 819,9	1 579 041,8

Base	
MIN (offer)	79 514,3
MAX (offer)	94 477,9
MIN (bid)	90 744,6
MAX (bid)	124 429,1
Average (offer)	83 925,2
Average (bid)	112 534,2

Peak	
MIN (offer)	79 514,3
MAX (offer)	82 964,6
MIN (bid)	116 724,6
MAX (bid)	124 429,1
Average (offer)	81 714,9
Average (bid)	121 043,1