

MARKET MONITORING REPORT

Market for Allocation of Cross-Border Capacities

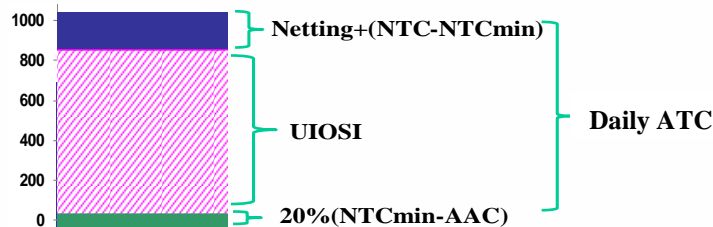
November 2017

ANRE - Romanian Energy Regulatory Authority
HHI - Herfindahl-Hirschman Index
BRP - Balance Responsible Party
BM - Balancing Market
DAM - Day Ahead Market
TSO - Transmission System Operator
DU – Dispatchable Unit
PN – Physical Notification
NDC - National Dispatching Center
C1 – The market share of the largest market participant
C3 – Total market share of top 3 market participants
NPS – Minimum number of residual generators
TTC – Total Transfer Capacity
NTC – Net Transfer Capacity
ATC – Available Transfer Capacity

According to the Commercial Code, Transelectrica, the Romanian Transmission System Operator, operates and monitors the activity of 3 types of markets: Balancing Market, Ancillary Services Market and Market for Allocation of Cross-Border Capacities.

Using the records from the markets data bases, Transelectrica prepares daily, weekly and monthly monitoring reports. A part of the data included in these reports (those data which are not confidential) is published on the website **www.transelectrica.ro**

- According to the agreements between Transelectrica and neighbors for year 2017 :
 - ✓ on the Bulgarian border, the bilateral coordinated allocation is done for 100% of total capacity by Transelectrica for long term auctions and by ESO EAD for daily auctions. The “netting” principle is applied to daily allocation. Starting with 01.01.2015, intraday auctions are no longer organized on the Bulgarian border, since the Bulgarian market rules are not allowing intraday cross-border exchanges, modifications of the notified schedules after 15:30 (CET) in D-1 for day D are prohibited.
 - ✓ on the Hungarian border, the bilateral coordinated allocation, is done for 100% of total capacity by MAVIR for long term auctions (based on Allocation Rules for Forward Capacity Allocation (HAR) and border specific Annex) and by Transelectrica for intra-day auctions. Implicit daily allocations are held since the CZ-SK-HU-RO day-ahead market coupling. In the event of decoupling, MAVIR is in charge with the explicit daily auctions (shadow auctions) for RO-HU border. The “netting” is applied to daily and intra-day allocation.
 - ✓ on the Serbian border, the bilateral coordinated allocation, is done for 100% of total capacity by EMS (Serbia) for daily auctions and by Transelectrica for long term daily and intra-day auctions. The “netting” is applied to daily and intra-day allocation. Starting with 01.01.2017 it was introduced UIOSI („ use it or sell it”) principle.
 - ✓ due to consultation with interconnection partners and regulators and taking into account auction participant opinions, on the Hungarian and Bulgarian borders it was agreed:
 - ✓ reservation of a percentage of interconnection capacity for short term auction, offered capacity being calculated as 80% of the minimum of available capacities of all periods of the month;
 - ✓ introduction of UIOSI („ use it or sell it”) principle.



- Transelectrica’s auctions are held on Damas platform, with euro currency trading.
- Long term auction results on the Hungarian border and daily auction results on the Bulgarian and Serbian borders (auction prices, allocated capacities) are provided by the respective TSO’s.

- The intra-day allocation is done in six auction sessions for time intervals: 00:00-04:00, 04:00-08:00, 08:00-12:00, 12:00-16:00, 16:00-20:00, 20:00-00:00 CET.
- Usage of allocated capacity on Ukrainian and Moldavian border is restricted by Ukrainian TSO agreement and respectively by the approval of the distribution operator of the passive consumption islands.
- In November, auctions were held as:
 - import Hungary: 04 – 05.11.2017; 06.11.2017; 07 – 08.11.2017; 09.11.2017; 10 – 13.11.2017; 14 – 30.11.2017;
 - export Hungary: 01 – 03.11.2017; 04 – 05.11.2017; 06 – 13.11.2017; 14 – 17.11.2017; 18 – 21.11.2017; 23 – 30.11.2017;
 - import/export Bulgaria*: 01 – 30.11.2017;
 - import Serbia: 01 – 03.11.2017; 04 – 05.11.2017; 06.11.2017; 07 – 08.11.2017; 09.11.2017; 10 – 13.11.2017; 14 – 17.11.2017; 18 – 21.11.2017; 22 – 30.11.2017;
 - export Serbia: 01 – 03.11.2017; 04 – 05.11.2017; 06 – 13.11.2017; 14 – 17.11.2017; 18 – 21.11.2017; 23 – 30.11.2017;
 - import Ukraine: 22 – 30.11.2017.
- In November there were no auctions held on Moldavian border. On export direction to Serbia (22.11.2017), export direction to Ukraine (01 – 30.11.2017) and import direction from Ukraine (01 – 21.11.2017), ATC was zero at monthly auction, due to full allocation of capacity at yearly auction. Offered capacity, calculated according to the allocation rules as 80% of the minimum of available capacities for each periods of the month, was zero on import direction from Hungary during the period 01 – 03.11.2017 and on export direction to Hungary for 22.11.2017.
- Due to lack of request from participants, 76 MW capacity was not allocated at monthly auction (during the period 18 – 21.11.2017), on import direction from Serbia.

* according to the allocation rules, monthly offered capacity was calculated taking into account the minimum of NTC's monthly value.

Monthly auction Results of 01 – 30 November 2017

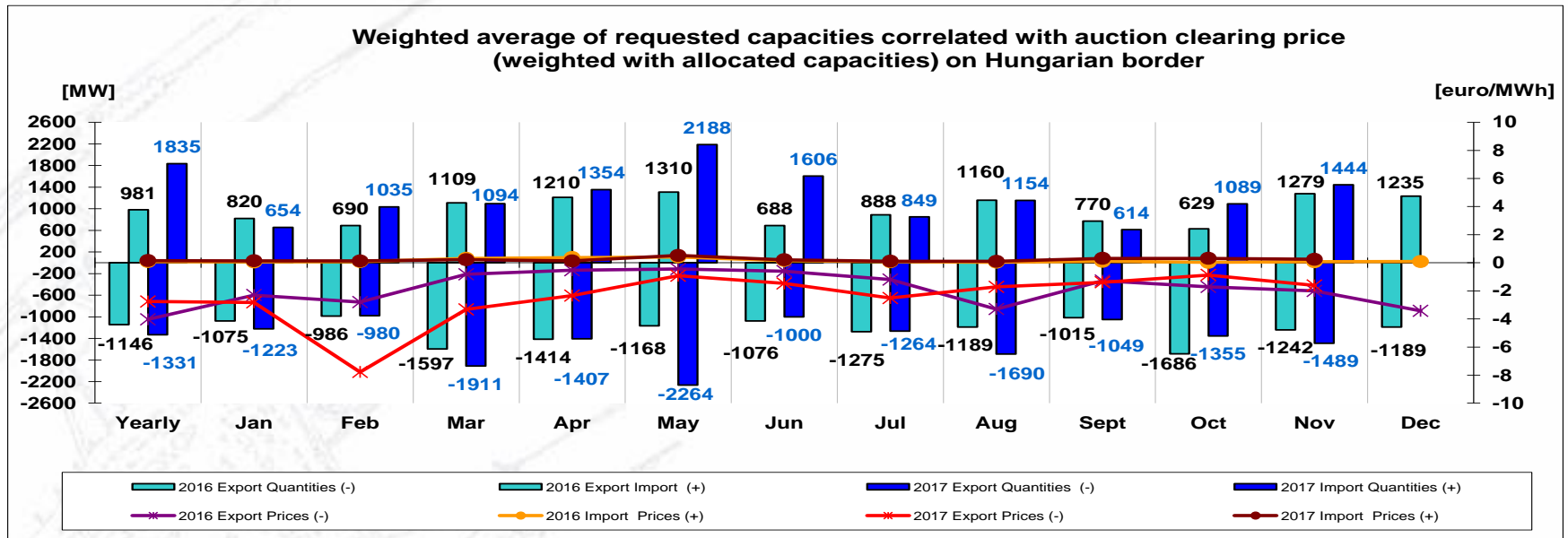
	Prices [euro/MWh]	Capacities [MW]								
	Results	TTC	NTC	ATC	AAC	Reserved	Offered	Requested	Alocated	Final Rights*
Hungary export										
<i>01 - 03 November 2017</i>	1.62	550	450	100	350	0	80	1489	80	430
<i>04 - 05 November 2017</i>	1.62	700	600	250	350	0	200	1489	200	550
<i>06 - 13 November 2017</i>	1.62	550	450	100	350	0	80	1489	80	430
<i>14 - 17 November 2017</i>	1.62	600	500	150	350	0	120	1489	120	470
<i>18 - 21 November 2017</i>	1.62	550	450	100	350	0	80	1489	80	430
<i>22 November 2017</i>	-	450	350	0	350	0	0	-	-	350
<i>23 - 30 November 2017</i>	1.62	550	450	100	350	0	80	1489	80	430
Hungary import										
<i>01 - 03 November 2017</i>	-	450	350	1	349	0	0	-	-	349
<i>04 - 05 November 2017</i>	0.25	750	650	301	349	0	240	1444	240	589
<i>06 November 2017</i>	0.25	500	400	51	349	0	40	1444	40	389
<i>07 - 08 November 2017</i>	0.25	650	550	201	349	0	160	1444	160	509
<i>09 November 2017</i>	0.25	550	450	101	349	0	80	1444	80	429
<i>10 - 13 November 2017</i>	0.25	500	400	51	349	0	40	1444	40	389
<i>14 - 30 November 2017</i>	0.25	800	700	351	349	0	280	1444	280	629
Bulgaria export										
<i>01 - 30 November 2017</i>	0.55	350	250	150	100	-	120	514	120	220
Bulgaria import										
<i>01 - 30 November 2017</i>	5.35	400	300	200	100	-	160	704	160	260

* final rights = monthly allocated capacity + yearly allocated capacity after withdrawals.

Monthly auction Results of 01 – 30 November 2017

	Prices [euro/MWh]	Capacities [MW]								
	Results	TTC	NTC	ATC	AAC	Reserved	Offered	Requested	Alocated	Final Rights*
Serbia export										
01 - 03 November 2017	1.67	450	350	150	200	-	150	581	150	350
04 - 05 November 2017	1.27	600	500	300	200	-	300	721	300	500
06 - 13 November 2017	1.71	450	350	150	200	-	150	581	150	350
14 - 17 November 2017	1.35	500	400	200	200	-	200	581	200	400
18 - 21 November 2017	1.85	450	350	150	200	-	150	581	150	350
22 November 2017	-	300	200	0	200	-	0	-	-	200
23 - 30 November 2017	1.77	450	350	150	200	-	150	581	150	350
Serbia import										
01 - 03 November 2017	0.03	400	300	150	150	-	150	359	150	300
04 - 05 November 2017	0.01	600	500	350	150	-	350	374	350	500
06 November 2017	0.03	450	350	200	150	-	200	374	200	350
07 - 08 November 2017	0.01	600	500	350	150	-	350	374	350	500
09 November 2017	0.02	500	400	250	150	-	250	374	250	400
10 - 13 November 2017	0.02	450	350	200	150	-	200	354	200	350
14 - 17 November 2017	0.01	550	450	300	150	-	300	374	300	450
18 - 21 November 2017	0.00	750	650	500	150	-	500	424	424	574
22 - 30 November 2017	0.01	900	800	650	150	-	650	679	650	800
Ukraine export										
01 - 30 November 2017	-	150	50	0	50	-	0	-	-	50
Ukraine import										
01 - 21 November 2017	-	150	50	0	50	-	0	-	-	50
22 - 30 November 2017	0.54	300	200	150	50	-	150	293	150	200
Moldavia export										
01 - 30 November 2017	-	-	-	-	-	-	-	-	-	-
Moldavia import										
01 - 30 November 2017	-	-	-	-	-	-	-	-	-	-
RO_Vulcanesti	-	-	-	-	-	-	-	-	-	-
01 - 30 November 2017	-	-	-	-	-	-	-	-	-	-
RO_Costesti	-	-	-	-	-	-	-	-	-	-
01 - 30 November 2017	-	-	-	-	-	-	-	-	-	-
RO_Cioara	-	-	-	-	-	-	-	-	-	-

- final rights = monthly allocated capacity + yearly allocated capacity after withdrawals.

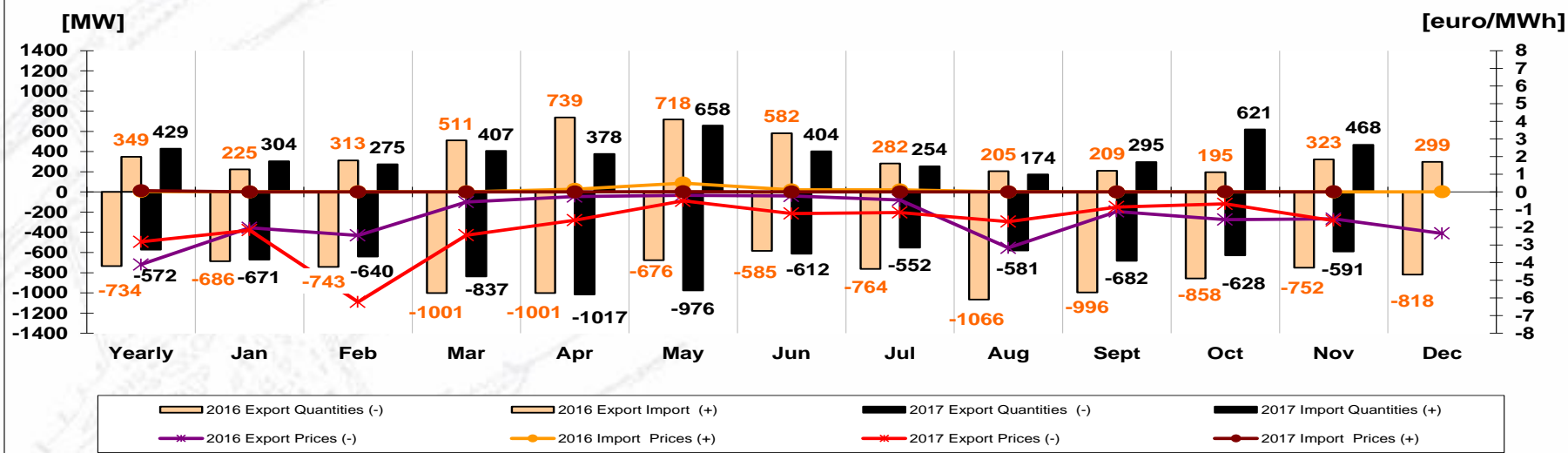


Border	yearly	Jan. 17	Feb.17	Mar.17	Apr.17	May 17	Jun. 17	Jul. 17	Aug. 17	Sept. 17	Oct. 17	Nov.17	Dec. 17
Hungary export	2.76	2.82	7.78	3.32	2.34	0.92	1.47	2.51	1.72	1.39	0.87	1.62	
Hungary import	0.15	0.14	0.13	0.22	0.13	0.52	0.21	0.11	0.10	0.31	0.31	0.25	

Border	yearly	Jan. 16	Feb.16	Mar.16	Apr.16	May 16	Jun. 16	Jul. 16	Aug. 16	Sept. 16	Oct. 16	Nov.16	Dec. 16
Hungary export	4.03	2.30	2.80	0.82	0.53	0.45	0.60	1.20	3.30	1.28	1.72	2.01	3.42
Hungary import	0.08	0.06	0.08	0.31	0.37	0.41	0.15	0.07	0.04	0.10	0.03	0.07	0.09

- Compared with previous year, in November 2017 the auction price decreased while offered capacity was lower and capacity request was higher. In November 2017, monthly auction price maintain reduced on import direction, while this is higher than auction price from November 2016.

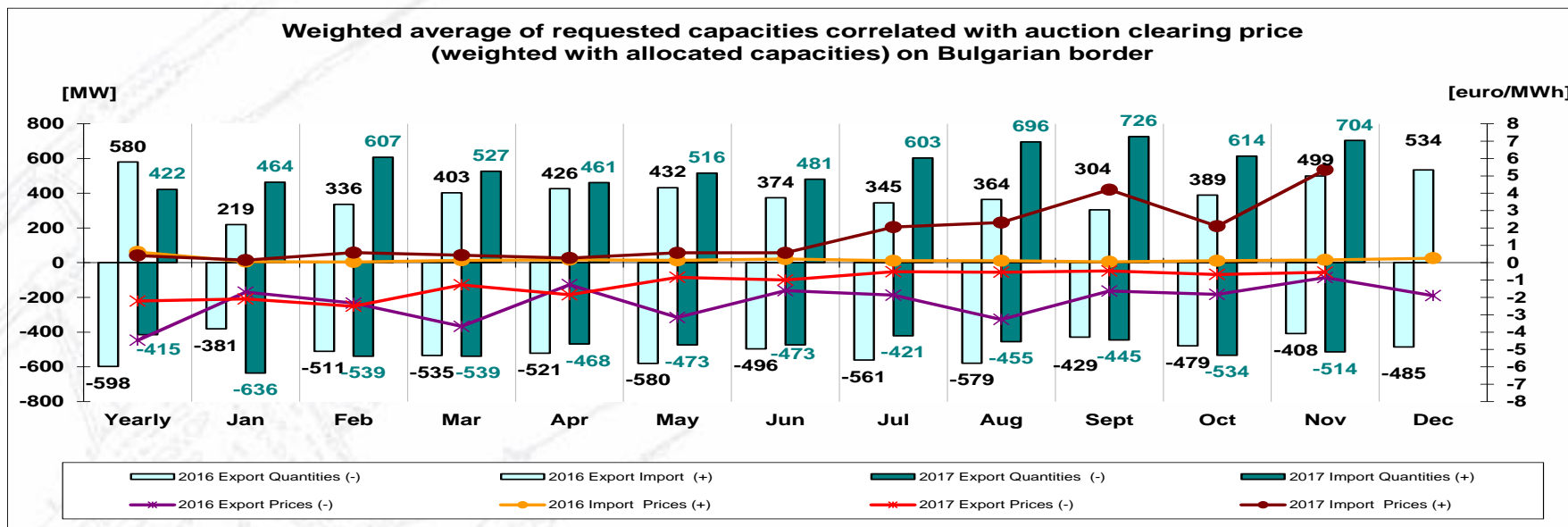
Weighted average of requested capacities correlated with auction clearing price (weighted with allocated capacities) on Serbian border



Border	yearly	Jan. 17	Feb.17	Mar.17	Apr.17	May 17	Jun. 17	Jul. 17	Aug. 17	Sept. 17	Oct. 17	Nov.17	Dec. 17
Serbia export	2.82	2.16	6.23	2.45	1.60	0.50	1.22	1.16	1.68	0.86	0.67	1.62	
Serbia import	0.07	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.01	0.01	

Border	yearly	Jan. 16	Feb.16	Mar.16	Apr.16	May 16	Jun. 16	Jul. 16	Aug. 16	Sept. 16	Oct. 16	Nov.16	Dec. 16
Serbia export	4.11	2.03	2.46	0.57	0.26	0.19	0.23	0.46	3.17	1.11	1.56	1.52	2.34
Serbia import	0.03	0.00	0.01	0.01	0.15	0.50	0.12	0.12	0.00	0.00	0.00	0.00	0.01

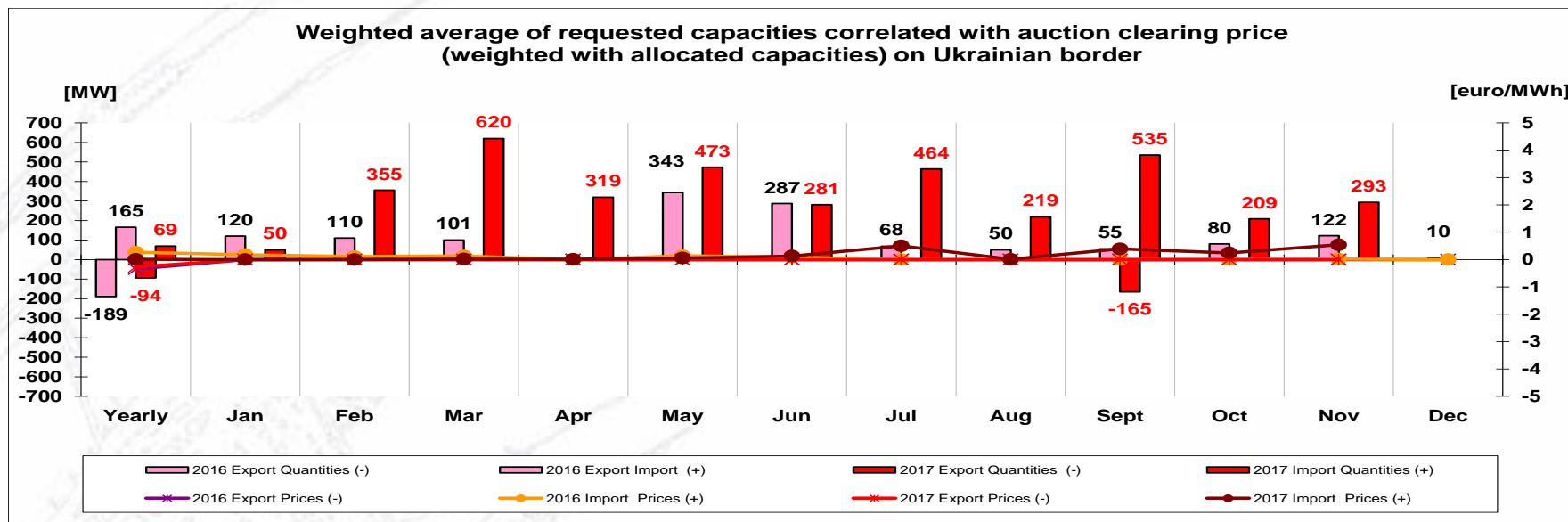
- Compared with the previous year, in November 2017 the auction price slightly increased on export direction, while offered capacity and capacity request were lower. In November 2017 monthly auction price was low on import direction.



Border	yearly	Jan. 17	Feb.17	Mar.17	Apr.17	May 17	Jun. 17	Jul. 17	Aug. 17	Sept. 17	Oct. 17	Nov.17	Dec. 17
Bulgaria export	2.21	2.09	2.51	1.28	1.85	0.84	1.00	0.52	0.55	0.48	0.68	0.55	
Bulgaria import	0.41	0.15	0.58	0.43	0.27	0.57	0.57	2.05	2.31	4.21	2.10	5.35	

Border	yearly	Jan. 16	Feb.16	Mar.16	Apr.16	May 16	Jun. 16	Jul. 16	Aug. 16	Sept. 16	Oct. 16	Nov.16	Dec. 16
Bulgaria export	4.47	1.70	2.33	3.67	1.27	3.16	1.61	1.87	3.27	1.63	1.83	0.86	1.90
Bulgaria import	0.62	0.06	0.04	0.14	0.17	0.13	0.21	0.11	0.11	0.05	0.11	0.16	0.26

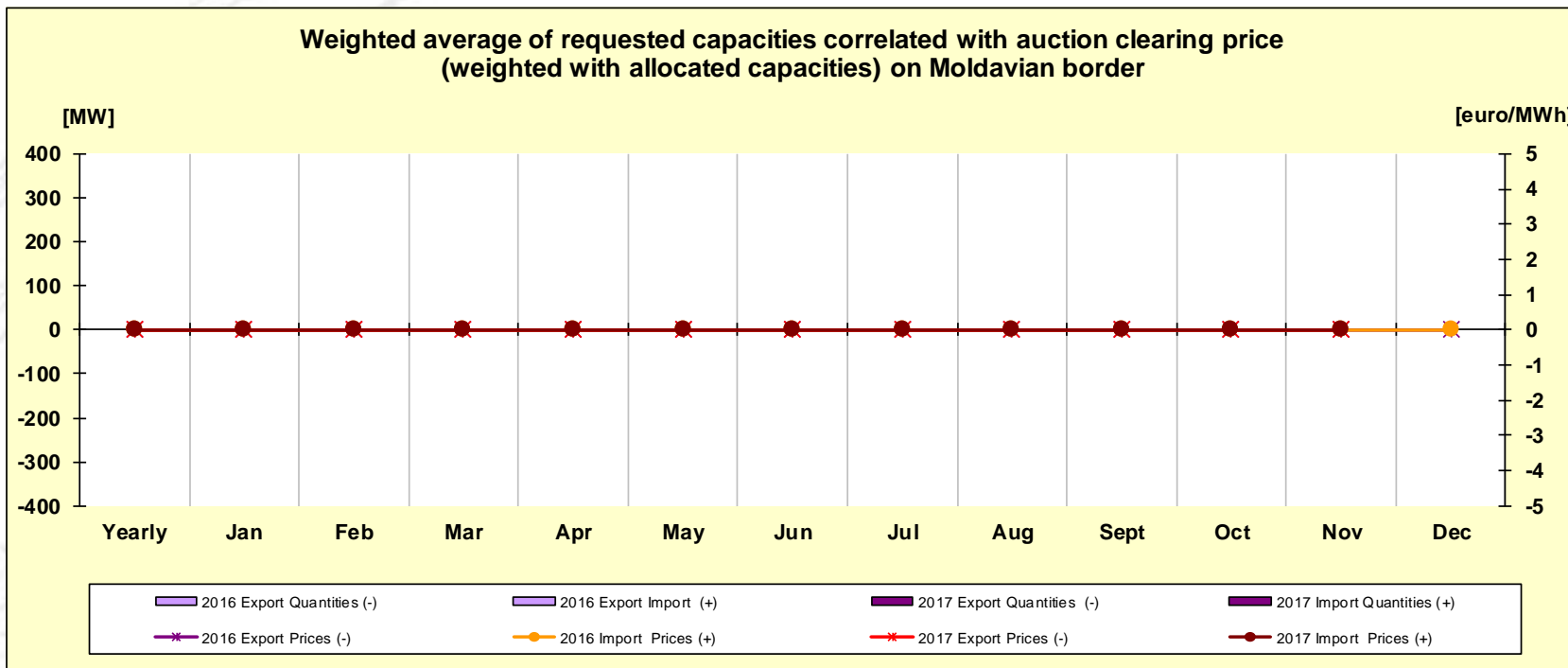
- Compared with the previous year, in November 2017 the auction price decreased on export direction, while offered capacity maintained the same level and capacity request was higher. Compared with the previous months and with similar month of previous year, in November 2017 the auction price significantly increased on import direction, while offered capacity maintained the same value and capacity request was higher.



Border	yearly	Jan. 17	Feb.17	Mar.17	Apr.17	May 17	Jun. 17	Jul. 17	Aug. 17	Sept. 17	Oct. 17	Nov.17	Dec. 17
Ukraine export	0.27	-	-	-	-	-	-	-	-	0.00	-	-	-
Ukraine import	0.01	0.00	0.00	0.02	0.01	0.06	0.13	0.50	0.01	0.39	0.24	0.54	

Border	yearly	Jan. 16	Feb.16	Mar.16	Apr.16	May 16	Jun. 16	Jul. 16	Aug. 16	Sept. 16	Oct. 16	Nov.16	Dec. 16
Ukraine export	0.35	-	-	-	-	-	-	-	-	-	-	-	-
Ukraine import	0.27	0.18	0.11	0.13	-	0.14	0.09	0.00	0.00	0.00	0.01	0.02	0.00

- Compared with the previous year and previous months, in November 2017 the auction price slightly increased on import direction, while offered capacity was lower and capacity request was higher. On export direction offered capacity was zero, due to full allocation of capacity at yearly auction.



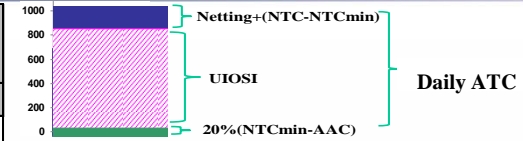
Border	yearly	Jan. 17	Feb.17	Mar.17	Apr.17	May 17	Jun. 17	Jul. 17	Aug. 17	Sept. 17	Oct. 17	Nov.17	Dec. 17
Moldavia export	-	-	-	-	-	-	-	-	-	-	-	-	-
Moldavia import	-	-	-	-	-	-	-	-	-	-	-	-	-

Border	yearly	Jan. 16	Feb.16	Mar.16	Apr.16	May 16	Jun. 16	Jul. 16	Aug. 16	Sept. 16	Oct. 16	Nov.16	Dec. 16
Moldavia export	-	-	-	-	-	-	-	-	-	-	-	-	-
Moldavia import	-	-	-	-	-	-	-	-	-	-	-	-	-

Market for Allocation of Cross-Border Capacities

Daily implicit Auctions on Romanian – Hungarian border

Reserved Capacity [MW] average value		Unused Capacity [MW] average value	
RO-HU	HU-RO	RO-HU	HU-RO
23	50	283	544



Hungary November 2017

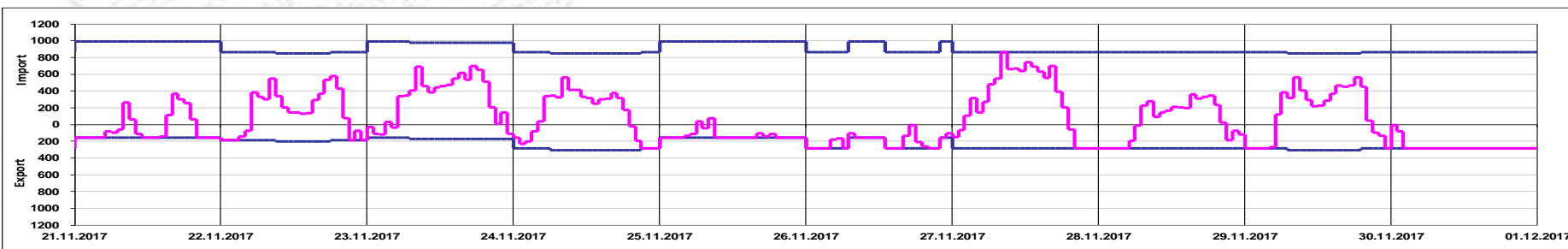
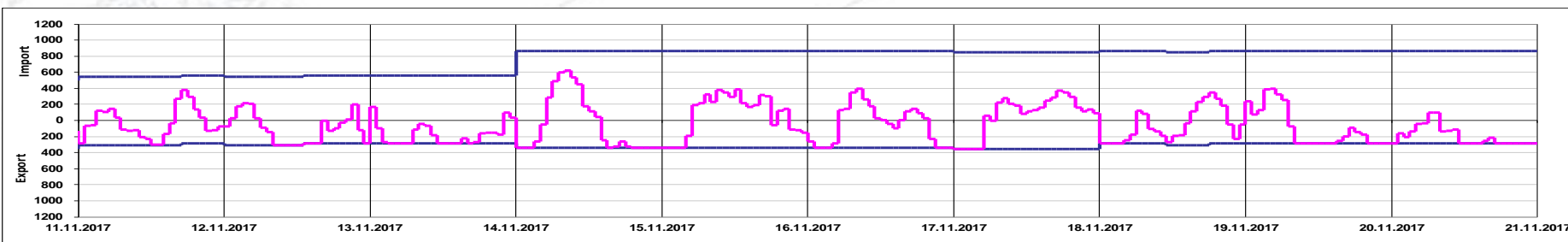
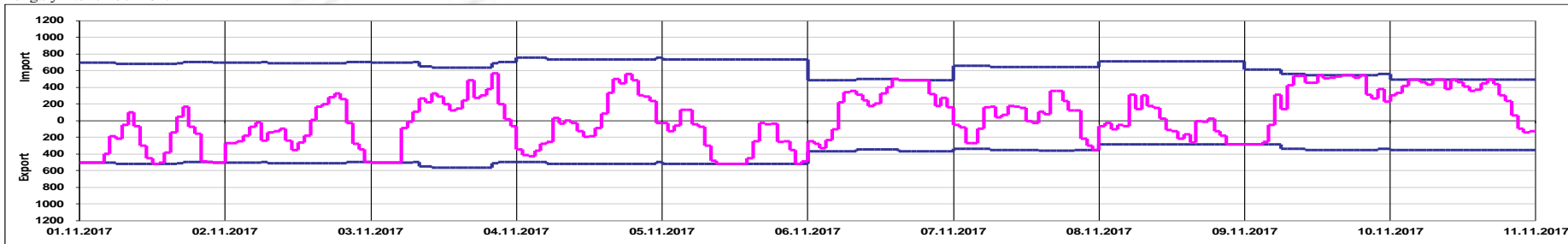


Public

Market for Allocation of Cross-Border Capacities

Daily implicit Auctions on Romanian – Hungarian border

Hungary November 2017



Offered Capacity on Daily Auction [MW]

Net Position Border RO – HU [MWh]

Market for Allocation of Cross-Border Capacities

Daily implicit Auctions on Romanian – Hungarian border

DAM Prices RO [Euro/MWh]

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max
1	17.84	15.23	16.09	18.11	21.37	24.94	30.05	35.10	40.66	43.00	41.62	40.05	33.71	31.99	31.54	37.78	55.20	61.07	65.02	63.26	55.95	30.89	28.28	20.01	65.02
2	19.85	17.99	16.56	15.51	18.07	26.23	46.02	60.45	62.41	60.03	60.14	63.14	60.82	61.95	62.68	69.55	100.01	105.96	103.73	93.40	75.02	62.41	57.64	38.93	105.96
3	26.10	20.20	20.20	26.10	33.05	47.45	56.98	72.92	99.07	108.73	100.03	100.03	100.00	93.01	92.13	94.09	110.26	125.04	126.13	123.96	100.00	63.98	53.52	54.53	126.13
4	51.90	48.49	41.00	31.55	32.10	47.03	35.40	58.95	62.42	62.57	60.53	61.48	58.07	53.46	54.37	60.01	85.09	118.53	113.09	85.10	69.38	57.95	48.35	49.94	118.53
5	49.98	46.04	35.10	30.91	33.09	33.09	46.14	49.97	48.91	49.36	43.41	42.22	42.05	40.92	43.99	48.92	62.47	76.18	73.79	80.01	60.95	52.76	43.75	33.00	80.01
6	31.16	30.50	28.06	26.76	30.00	37.17	57.99	71.99	78.74	83.93	75.97	79.96	76.18	76.90	87.07	103.59	119.72	124.07	124.07	118.63	77.52	60.79	60.01	43.31	124.07
7	38.80	37.70	35.62	34.68	36.20	44.58	58.01	79.85	79.72	81.01	79.95	73.99	72.98	72.98	76.00	75.66	89.12	105.93	99.76	87.11	77.42	66.48	49.01	40.01	105.93
8	35.32	34.61	33.91	33.95	34.90	37.23	50.00	68.39	76.55	72.04	70.95	73.26	71.41	70.39	71.20	80.00	88.60	110.60	114.52	90.80	66.00	45.08	41.38	34.63	114.52
9	34.59	34.59	34.59	36.50	38.62	41.06	54.28	77.94	89.88	95.00	95.08	100.00	97.89	89.00	96.39	95.96	118.13	126.17	125.09	118.13	87.90	65.05	54.09	37.27	126.17
10	34.20	32.90	28.57	28.57	32.90	38.75	62.20	82.66	97.41	90.08	92.19	84.75	84.06	79.08	83.35	81.38	100.87	105.94	101.96	93.11	78.75	58.68	41.08	33.05	105.94
11	34.36	30.98	28.52	20.69	24.20	26.04	33.26	43.54	53.48	57.24	55.63	54.24	52.49	49.48	49.27	53.89	65.16	73.37	72.66	68.96	60.13	49.48	38.93	35.68	73.37
12	33.99	28.96	23.99	20.48	20.00	21.77	23.76	26.20	30.61	28.45	26.08	29.64	22.90	21.52	23.71	32.77	45.20	60.05	62.12	60.05	52.65	38.94	37.24	27.76	62.12
13	29.70	27.55	25.96	17.89	19.40	30.61	40.53	62.19	69.79	65.03	64.02	61.87	70.92	69.79	68.76	70.92	75.45	80.04	75.23	73.12	65.48	57.56	45.44	39.23	80.04
14	30.61	32.77	32.77	32.81	33.80	35.00	45.94	61.83	62.08	57.56	53.70	48.98	45.14	40.45	41.80	32.77	51.08	57.32	55.70	44.19	27.16	10.99	11.21	8.62	62.08
15	23.66	19.81	23.66	28.69	33.50	37.70	54.82	73.10	76.46	72.54	68.61	69.50	68.61	71.52	73.50	78.50	89.97	112.92	120.10	101.20	69.70	55.40	46.00	39.00	120.10
16	38.17	34.21	32.70	30.55	34.40	39.13	56.90	74.27	70.25	71.00	63.90	68.36	70.37	63.90	63.90	61.62	70.78	70.04	61.78	56.84	48.17	30.55	27.65	25.25	74.27
17	20.90	17.92	17.92	19.44	31.75	34.86	48.30	61.08	61.00	64.62	66.05	71.48	72.09	68.89	67.63	68.89	79.93	86.38	75.58	71.48	60.06	49.45	38.66	36.84	86.38
18	34.28	27.45	21.70	21.70	25.78	33.06	23.85	53.25	61.80	66.29	64.67	63.94	60.28	55.02	51.52	54.06	63.17	72.13	67.02	64.03	57.56	53.25	47.21	38.59	72.13
19	26.02	25.09	20.27	15.08	12.98	15.08	20.00	27.73	27.73	23.71	19.80	20.34	17.84	21.19	31.10	49.35	60.04	69.06	71.03	68.75	57.54	47.20	21.55	18.30	71.03
20	23.71	21.02	18.10	17.46	20.27	35.97	49.57	70.86	73.69	70.48	60.29	59.91	57.54	53.23	57.76	70.04	80.09	86.21	70.91	53.23	27.73	19.30	15.09	15.54	86.21
21	2.16	4.31	6.47	14.66	26.51	51.45	64.01	85.01	91.87	89.67	89.98	73.06	73.06	73.06	78.98	81.55	93.00	100.00	89.95	83.02	68.75	47.20	43.10	27.73	100.00
22	20.40	19.90	20.97	33.79	41.90	48.69	60.62	78.09	89.99	85.91	89.74	85.00	92.53	87.07	86.08	87.97	119.43	119.43	109.94	100.00	84.98	68.86	60.44	51.43	119.43
23	52.26	38.67	33.74	30.74	38.01	50.38	64.29	79.94	96.50	85.00	82.04	81.19	89.87	87.05	92.37	104.70	122.45	119.32	105.26	89.96	79.97	68.55	59.99	58.66	122.45
24	55.97	47.83	38.23	33.71	38.50	55.91	72.83	107.53	107.53	100.00	100.00	100.00	100.00	98.93	92.48	92.02	102.34	100.00	89.92	77.10	69.44	40.43	33.44	21.50	107.53
25	42.97	38.46	34.16	36.52	38.53	45.67	50.96	54.92	60.05	58.01	51.35	40.39	40.39	39.27	40.82	53.07	61.66	65.11	63.05	57.36	32.18	24.30	9.88	10.74	65.11
26	8.60	6.45	8	8.81	9.95	12.00	21.49	30.51	28.37	21.49	21.06	24.73	23.04	21.06	23.64	36.69	68.55	68.90	72.85	68.55	53.08	30.51	26.22	27.85	72.85
27	18.91	17.55	13.70	12.03	21.69	44.13	53.25	77.97	90.25	75.21	77.91	75.40	78.68	75.13	74.08	75.95	85.95	97.77	88.33	79.99	59.74	27.48	19.77	12.89	97.77
28	27.51	17.84	11.17	10.96	26.22	38.46	60.03	74.88	79.91	80.03	78.46	78.91	75.21	75.06	77.94	84.85	98.85	101.82	96.17	84.03	73.96	61.59	50.40	49.42	101.82
29	14.50	14.50	17.23	20.20	40.01	58.17	61.81	82.14	92.61	86.15	80.80	81.50	79.63	81.96	96.45	105.47	123.46	123.98	116.30	93.63	79.82	64.05	63.09	43.02	123.98
30	58.39	50.33	38.56	30.00	25.85	24.78	11.85	15.08	15.08	11.20	6.46	5.60	4.31	2.37	4.52	11.85	30.40	28.10	28.01	21.54	11.85	5.39	6.68	11.20	58.39

Average **55.46 EUR/MWh**

Public

Congestion Prices [Euro/MWh]

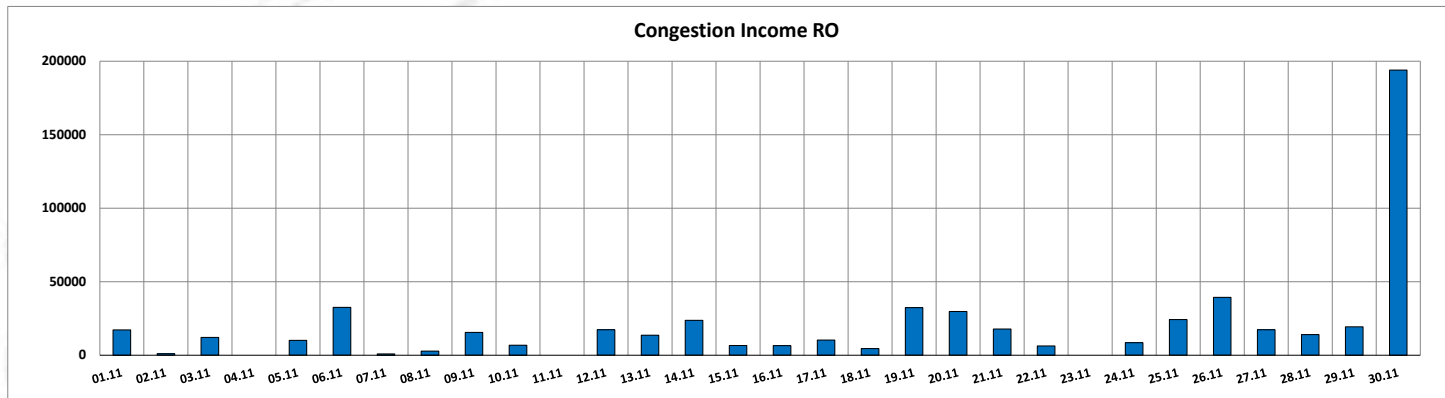
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	
1	6.59	9.05	5.91	2.09	-	-	-	-	-	-	-	-	4.79	-	-	-	-	-	-	-	-	12.23	16.76	11.13	16.76	
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.11	4.11	
3	10.51	15.10	13.81	6.84	1.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.10	
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	
5	-	-	-	-	-	-	-	-	-	0.66	8.57	10.69	8.95	7.03	-	-	-	-	-	-	-	-	-	3.25	10.69	
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.73	21.61	31.77	24.07	24.07	24.28	-	-	-	-	31.77	
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.92	4.92	
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.62	6.62	5.37	7.62	
9	3.91	2.91	2.41	-	-	-	-	-	-	-	-	-	1.96	-	-	-	23.19	7.12	-	19.83	-	-	-	-	23.19	
10	-	-	-	1.55	0.85	-	-	3.38	2.76	-	4.57	-	-	-	-	-	14.66	-	-	-	-	-	-	-	14.66	
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	
12	-	-	-	-	-	-	-	-	3.68	9.51	19.88	18.36	20.96	19.47	14.28	5.23	-	-	-	-	-	-	-	4.63	20.96	
13	-	-	-	6.01	6.26	0.08	3.47	-	-	-	-	23.22	16.77	17.84	13.34	-	7.58	-	-	-	-	-	-	-	23.22	
14	5.54	2.11	0.74	-	-	-	-	-	-	-	-	-	-	-	-	11.43	-	-	-	10.01	23.90	33.31	26.88	26.88	33.31	
15	10.22	14.09	10.04	4.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.09	
16	-	2.81	2.60	4.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.93	9.17	10.55	10.55	
17	17.18	15.09	13.08	12.06	0.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.18	
18	17.15	6.33	5.25	2.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.15	
19	-	-	-	-	-	-	-	-	6.17	24.92	32.19	36.59	39.23	28.02	17.54	-	-	-	-	-	2.52	3.26	15.41	18.62	39.23	
20	2.31	-	-	-	-	-	-	-	-	-	-	4.09	8.92	8.33	4.00	-	-	0.95	9.15	24.92	38.14	48.65	29.97	27.27	48.65	
21	53.91	29.58	26.73	18.84	7.69	-	-	-	-	-	-	12.96	10.91	7.99	-	-	-	-	-	-	7.90	15.84	11.93	21.29	53.91	
22	28.21	22.76	13.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.12	-	28.21	
23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	
24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.57	18.44	17.09	23.57	
25	17.83	13.48	12.79	0.71	-	-	-	-	2.00	9.61	24.61	19.38	24.56	14.12	1.85	-	-	-	-	10.59	31.78	33.67	47.03	42.52	47.03	
26	27.89	8.64	5	1.70	-	-	3.55	-	23.20	31.78	36.85	34.08	33.73	34.79	29.31	16.22	-	-	-	-	12.16	33.44	24.22	-	36.85	
27	-	-	-	-	-	-	-	-	10.29	-	-	-	-	-	-	-	-	-	-	-	-	4.86	37.52	21.35	25.59	37.52
28	28.84	17.24	22.57	21.10	7.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28.84	
29	43.01	39.06	31.79	16.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.96	43.01	
30	-	-	2.02	8.09	13.65	23.85	49.23	74.32	84.72	85.30	88.53	88.37	83.49	85.73	84.63	79.35	67.60	88.02	78.34	67.66	61.55	52.66	44.85	35.20	88.53	

Average 20.15 EUR/MWh

Public

Market for Allocation of Cross-Border Capacities

Daily implicit Auctions on Romanian – Hungarian border



Day	Congestion Income border RO-HU [Euro]	Congestion Income RO [Euro]
01.11	34501	17250
02.11	2047	1023
03.11	24260	12130
04.11	0	0
05.11	20241	10120
06.11	65126	32563
07.11	1756	878
08.11	5648	2824
09.11	30949	15474
10.11	13691	6845
11.11	0	0
12.11	34639	17319
13.11	27236	13618
14.11	47450	23725
15.11	13200	6600
16.11	13045	6523
17.11	20679	10339
18.11	8888	4444
19.11	64647	32324
20.11	59530	29765
21.11	35640	17820
22.11	12677	6338
23.11	0	0
24.11	17021	8510
25.11	48432	24216
26.11	78655	39328
27.11	34594	17297
28.11	28028	14014
29.11	38696	19348
30.11	387982	193991
Total	1169255	584628

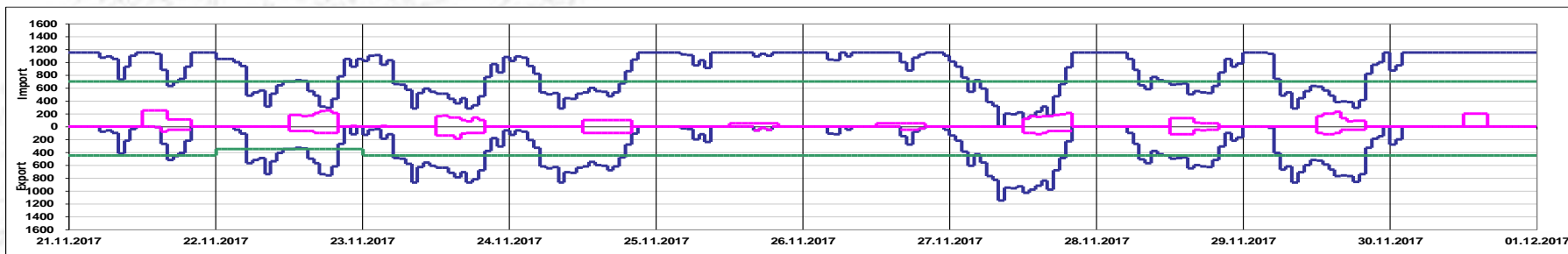
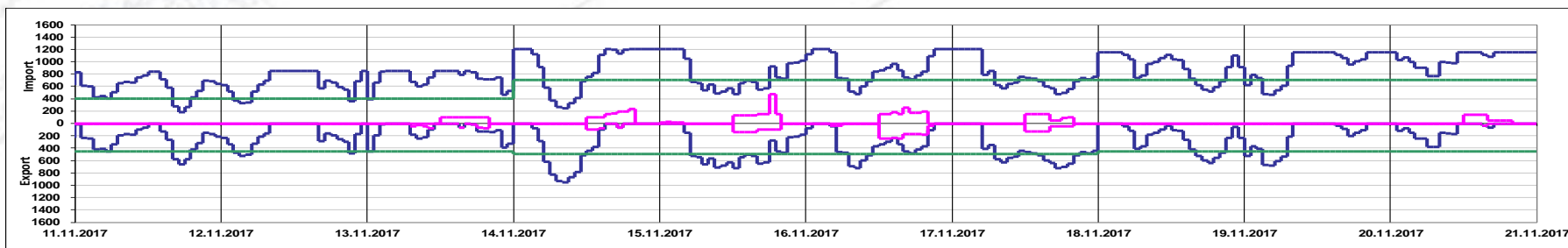
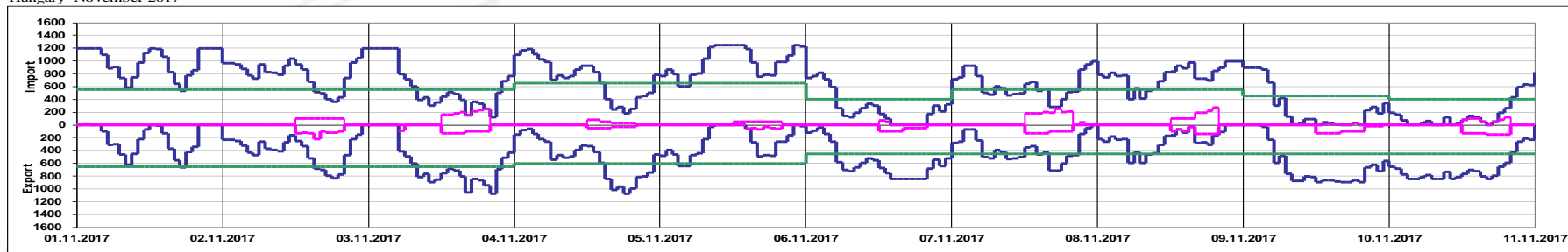
Daily Income [Euro]		Remuneration UIOSI [Euro]	
RO-HU	HU-RO	RO-HU	HU-RO
1053278	115977	949981	91958
1169255		1041939	

TSO Income (Z-R) [Euro]	RO TSO Income (Z-R) [Euro]
127317	63658

Market for Allocation of Cross-Border Capacities

Intraday Auctions on Romanian – Hungarian border

Hungary November 2017



Offered Capacity on Intraday Auction Import (+) / Export (-) [MW]

Allocated Capacity on Intraday Auction Import (+) / Export (-) [MW]

Net Transfer Capacity (NTC) Import (+) / Export (-) [MW]

Market for Allocation of Cross-Border Capacities

Intraday Auctions on Romanian – Hungarian border

Auction Price [Euro/MWh] - Export

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max
1	-	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-	-	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	-	-	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	-	-	-	0.01
9	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-	-	-	-	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00
13	0.00	0.00	0.00	-	-	-	-	0.00	0.00	0.00	0.00	-	-	-	-	0.02	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
14	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.01	0.00	0.00	-	-	-	-	-	0.01
15	-	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-	0.01
17	-	-	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	-	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-	-	-	-	-	-	0.00	0.00	0.00	0.00	0.00	-	-	-	-	0.00
20	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-	-	-	0.50	0.00	-	-	-	-	-	-	-	0.50
21	-	-	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00	-	-	-	-	0.00
22	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	-	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-	-	0.00
25	-	-	-	-	0.00	0.00	0.00	0.00	0.00	-	-	-	-	-	-	-	0.00	0.00	0.00	-	-	-	-	-	0.00
26	-	-	-	-	0.00	0.00	-	0.00	-	-	-	-	-	-	-	-	0.00	0.00	0.00	0.00	-	-	-	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-	-	-	0.00
28	-	-	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	-	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00

Hungary November 2017

Auction Price [Euro/MWh] - Import

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-	-	-	-	-	-	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	-	-	0.01	-	0.00	0.00	0.00	0.00	0.01
10	0.00	0.00	0.00	-	-	0.00	0.00	-	-	0.00	-	0.00	0.01	0.00	0.00	0.02	-	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

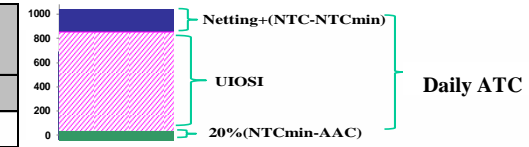
Hungary

November 2017

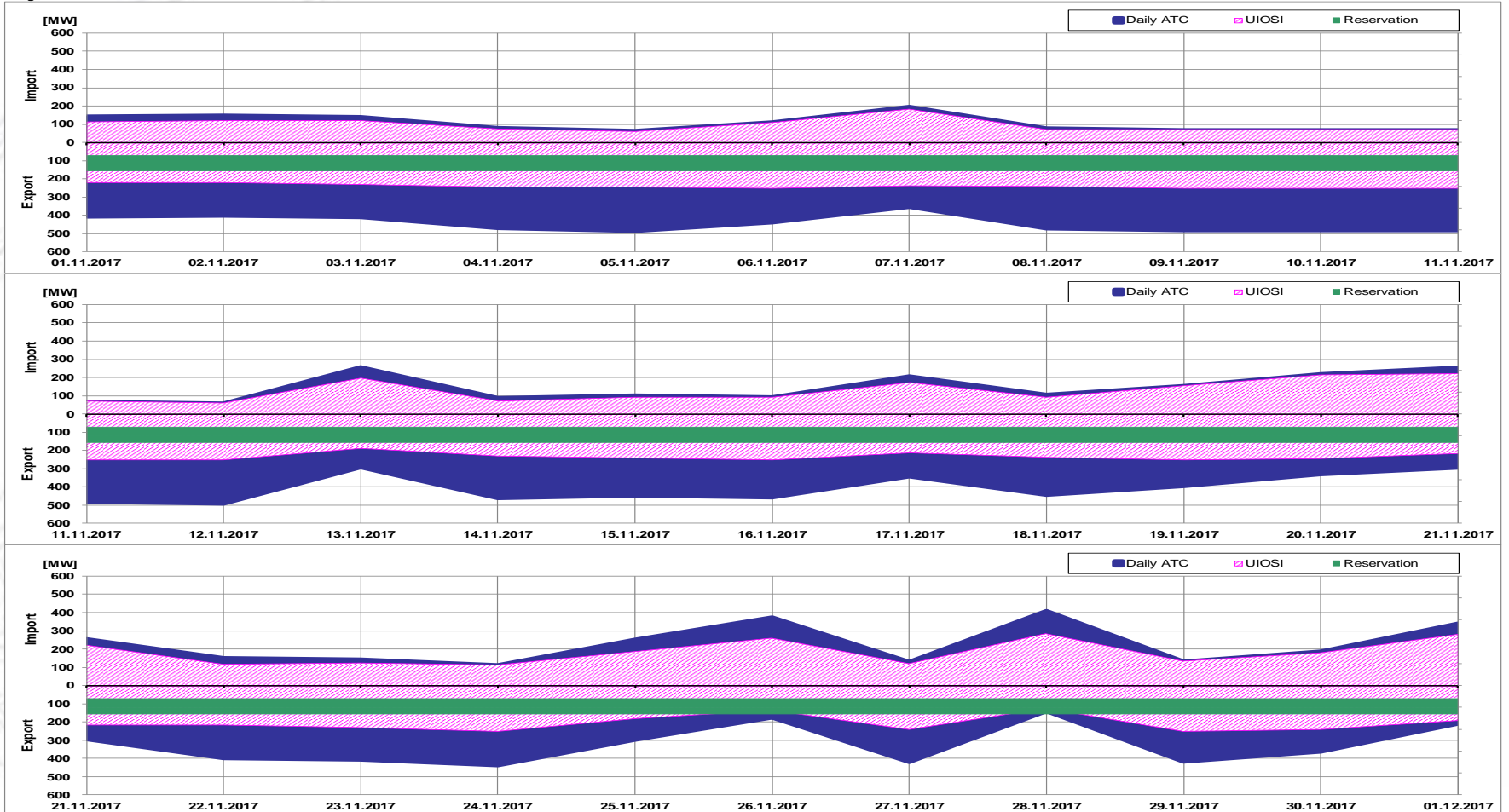
Market for Allocation of Cross-Border Capacities

Daily Auctions on Romanian – Bulgarian border

Reserved Capacity [MW] average value		Unused Capacity [MW] average value	
RO-BG	BG-RO	RO-BG	BG-RO
30	40	205	80



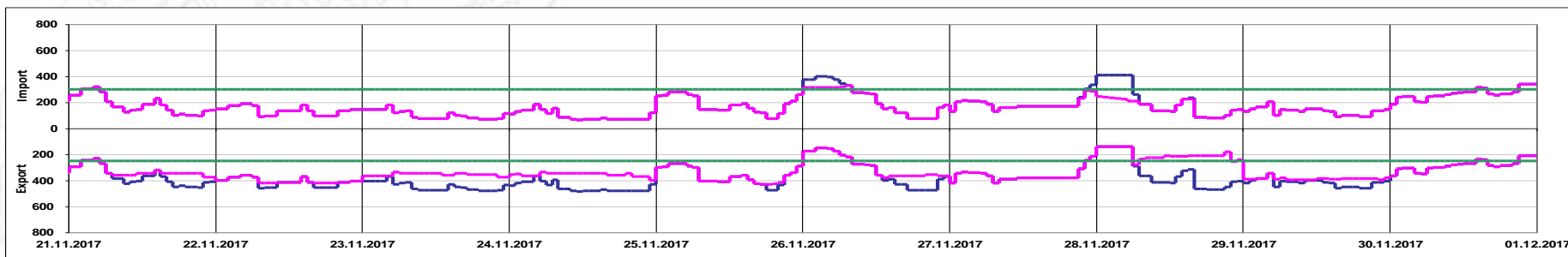
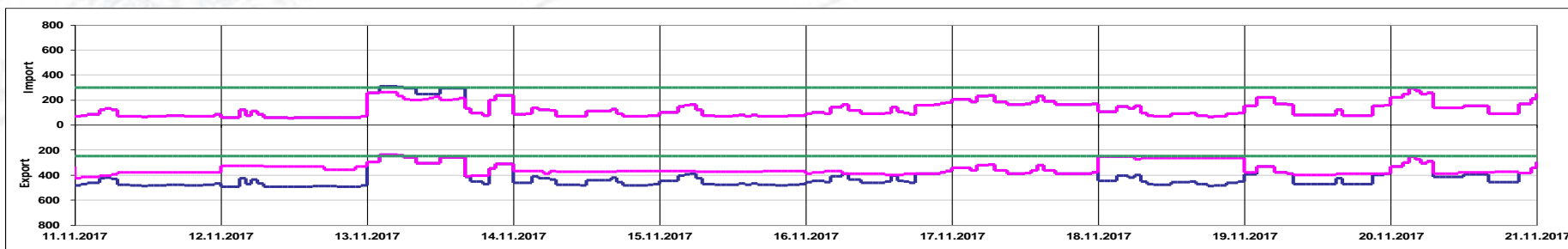
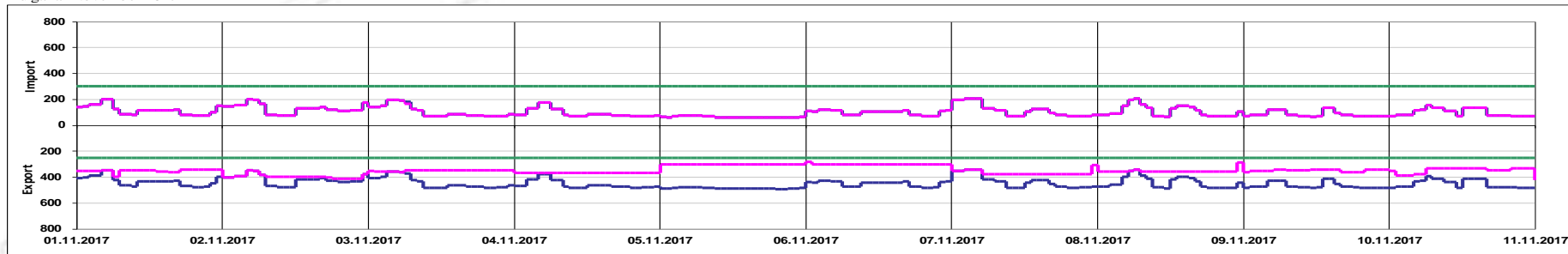
Bulgaria November 2017



Market for Allocation of Cross-Border Capacities

Daily Auctions on Romanian – Bulgarian border

Bulgaria November 2017



Offered Capacity on Daily Auction Import (+) / Export (-) [MW]

Allocated Capacity on Daily Auction Import (+) / Export (-) [MW]

Net Transfer Capacity (NTC) Import (+) / Export (-) [MW]

Market for Allocation of Cross-Border Capacities

Daily Auctions on Romanian – Bulgarian border

Auction Price [Euro/MWh] – Export

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	
1	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	
2	0.07	0.07	0.07	0.07	0.19	0.07	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.19
3	0.00	0.00	0.00	0.03	0.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.03	0.03	0.05	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
8	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.56	0.69	0.69	0.69	1.23	1.23	0.55	1.23	1.23	0.55	0.55	0.38	4.54	4.54	4.54	2.02	0.00	0.00	0.00	0.00	0.00	0.04	0.03	0.03	0.03	4.54
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
17	0.12	0.12	0.12	0.07	0.71	0.89	0.39	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.07	0.07	0.07	0.00	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
20	0.11	0.11	0.24	1.23	1.15	0.24	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	2.56	1.23	1.23	0.92	1.15	0.33	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.56
22	0.02	0.02	0.03	0.03	0.06	0.02	0.02	0.00	0.00	0.00	0.02	0.02	0.01	0.01	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.06
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	1.10	1.10	1.50	1.50	1.50	1.10	1.10	0.07	0.07	0.07	0.07	0.07	0.33	0.26	0.09	0.06	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	5.70	6.23	6.43	5.77	5.80	4.70	2.00	1.87	0.43	0.60	0.33	0.33	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.43
27	0.03	0.14	0.14	0.14	0.14	0.14	0.04	0.03	0.04	0.03	0.03	0.04	0.04	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.16	1.33	1.50
28	5.40	5.20	5.20	2.93	2.93	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.40
29	0.00	0.00	0.01	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
30	0.13	0.27	0.27	0.48	0.72	0.48	1.28	1.28	1.44	2.12	3.52	3.52	5.01	5.09	5.74	3.52	0.19	0.19	0.19	0.19	0.19	0.85	3.52	10.40	10.29	10.40

Bulgaria November 2017

Market for Allocation of Cross-Border Capacities

Daily Auctions on Romanian – Bulgarian border

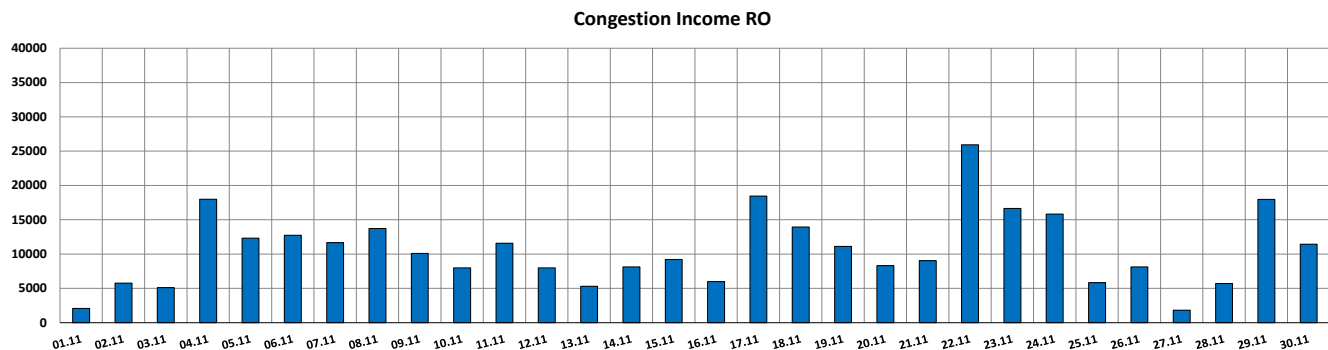
Auction Price [Euro/MWh] – Import

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max
1	2.00	0.60	0.60	0.60	0.34	0.33	0.60	0.60	1.08	2.00	1.55	1.55	0.78	1.11	0.60	0.60	1.28	2.00	5.55	5.55	2.00	6.66	2.22	2.00	6.66
2	0.38	0.38	0.27	0.27	0.11	1.31	0.92	5.00	6.15	8.15	8.15	8.15	5.00	5.00	5.00	4.58	5.00	5.00	5.55	5.98	5.98	5.13	5.00	5.00	8.15
3	0.85	0.52	0.42	0.30	0.30	0.07	0.00	0.52	1.12	4.58	5.70	8.56	6.55	5.58	4.58	5.70	8.55	8.55	11.56	11.56	8.55	8.55	21.90	9.56	21.90
4	9.66	8.72	8.34	7.47	6.66	5.67	8.88	12.55	17.12	18.91	17.56	18.06	16.54	15.12	15.54	17.44	24.62	31.10	45.10	45.10	37.88	22.66	15.50	13.51	45.10
5	13.41	9.99	6.66	6.66	6.66	7.29	9.99	11.04	15.57	18.20	21.50	19.32	18.92	15.89	15.89	17.35	20.15	31.15	31.15	25.50	25.11	19.01	17.50	13.10	31.15
6	6.66	6.66	6.66	6.29	5.00	5.00	8.00	8.30	10.00	10.00	10.00	14.80	11.14	8.00	8.00	8.85	11.00	15.00	18.00	22.15	21.21	21.50	14.50	13.79	22.15
7	6.60	3.60	3.60	2.40	2.40	3.00	3.00	4.50	4.80	12.55	16.00	17.01	12.00	7.20	9.60	4.50	6.00	8.15	22.22	22.22	31.87	22.50	18.18	12.78	31.87
8	11.00	9.01	4.50	3.57	3.33	3.00	3.00	5.00	0.07	15.00	15.57	16.10	12.00	11.80	11.38	6.00	8.57	16.10	45.70	27.50	31.07	22.22	18.18	12.10	45.70
9	7.92	6.30	5.84	5.34	0.56	0.45	3.73	12.16	15.05	15.05	15.05	15.50	15.05	7.42	8.82	2.56	2.56	8.00	21.00	22.22	22.22	22.22	21.34	7.50	22.22
10	7.00	4.50	4.50	4.50	2.78	0.69	0.69	0.69	1.57	4.50	5.67	9.01	3.21	2.02	1.69	1.57	7.51	16.10	22.22	22.22	32.11	22.22	18.18	11.32	32.11
11	5.67	3.50	2.00	2.00	0.55	2.02	4.56	10.69	10.69	13.49	15.03	15.15	12.50	11.01	12.50	12.50	16.62	32.00	32.32	30.53	27.15	23.23	17.50	7.15	32.32
12	5.55	5.55	2.22	0.12	0.26	0.17	5.55	13.13	13.13	13.13	13.13	13.13	13.13	13.13	13.13	13.13	13.13	20.69	24.24	24.24	24.24	14.00	6.66	2.50	24.24
13	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	5.67	15.00	24.24	0.17	0.03	0.02	0.02	24.24
14	4.44	4.12	3.33	2.56	2.55	2.12	1.23	1.47	1.97	9.75	13.25	15.55	12.55	9.75	9.12	1.47	2.05	3.77	21.21	25.00	21.21	21.21	4.44	4.44	25.00
15	3.97	3.21	3.21	2.34	2.25	0.69	1.78	3.69	3.20	8.65	8.65	8.65	8.65	8.47	8.65	8.65	13.25	23.45	42.52	25.15	25.00	17.50	6.66	6.66	42.52
16	3.33	2.91	2.22	2.22	0.85	0.42	0.87	1.15	1.00	2.26	2.56	3.70	2.56	2.56	0.87	2.56	3.70	6.65	18.18	16.00	8.00	3.70	1.87	0.55	18.18
17	1.10	1.10	1.01	1.25	1.01	1.23	1.23	2.34	2.75	3.55	3.69	4.52	4.52	3.69	3.69	3.69	4.52	36.61	34.56	31.15	31.00	14.32	14.00	5.67	36.61
18	5.55	5.55	5.55	3.58	3.58	5.55	0.77	4.70	13.25	18.50	19.26	21.47	15.14	15.11	15.00	14.00	20.05	31.00	31.00	28.49	25.00	20.00	11.03	5.55	31.00
19	5.56	1.56	0.65	0.65	0.65	1.56	1.56	5.56	8.88	11.00	11.00	11.00	11.00	8.88	11.00	5.95	15.00	22.00	22.00	21.76	20.00	18.33	10.00	4.10	22.00
20	0.55	0.55	0.36	0.36	0.36	1.00	1.00	2.44	2.00	3.50	4.25	4.25	3.00	1.00	1.84	3.00	16.00	22.00	31.00	25.00	16.16	0.77	1.56	0.65	31.00
21	0.12	0.12	0.10	0.10	0.10	0.33	0.55	2.00	2.00	2.65	2.65	3.21	2.56	1.95	1.48	1.95	2.65	5.67	22.00	35.35	22.00	16.16	8.55	3.85	35.35
22	7.00	5.67	5.67	3.21	4.78	7.00	10.04	27.09	21.11	21.11	14.52	14.52	10.69	10.69	14.52	21.11	49.71	49.71	46.40	35.35	25.25	12.34	11.08	49.71	
23	5.67	5.67	3.53	2.56	2.56	7.53	8.24	7.65	7.65	15.01	16.01	22.03	16.01	14.27	11.22	7.53	15.15	28.01	32.02	45.45	45.67	35.43	20.20	16.16	45.67
24	12.12	7.52	6.66	6.66	0.47	4.00	4.00	2.77	10.00	13.53	23.01	25.01	19.55	15.60	15.25	13.53	22.00	22.00	50.00	46.44	31.31	23.99	12.12	12.12	50.00
25	0.07	0.07	0.03	0.03	0.03	0.07	0.07	0.63	0.63	1.00	1.00	1.00	0.55	0.55	0.38	1.00	1.00	15.10	21.99	21.98	13.33	0.63	0.13	0.01	21.99
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.14	0.21	0.19	0.19	0.75	1.00	0.75	3.33	4.99	20.28	22.77	23.10	22.00	13.55	0.75	0.55	23.10
27	0.75	0.19	0.13	0.13	0.13	0.19	0.55	1.50	1.00	1.00	1.00	1.00	0.55	0.55	0.55	0.55	1.00	0.55	1.00	1.00	2.00	0.00	0.00	0.00	2.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.38	1.01	1.55	1.01	0.07	0.00	0.00	1.55	5.55	13.55	22.00	34.81	13.55	1.78	0.54	34.81
29	5.69	5.69	3.33	3.33	3.33	3.55	3.69	5.50	7.50	10.59	10.69	10.69	7.52	10.69	10.69	10.69	12.52	35.69	47.00	47.00	25.35	15.20	10.15	2.55	47.00
30	1.27	0.65	0.52	0.52	0.65	0.72	0.52	0.52	0.55	0.52	0.55	0.55	0.52	0.38	0.27	0.52	1.12	4.75	7.11	7.11	0.72	0.19	0.19	0.19	7.11

Bulgaria November 2017

Market for Allocation of Cross-Border Capacities

Daily Auctions on Romanian – Bulgarian border



Day	Congestion Income border RO-BG [Euro]	Congestion Income RO [Euro]
01.11	4162	2081
02.11	11526	5763
03.11	10208	5104
04.11	35983	17991
05.11	24650	12325
06.11	25476	12738
07.11	23312	11656
08.11	27463	13731
09.11	20184	10092
10.11	15999	8000
11.11	23149	11575
12.11	15981	7991
13.11	10631	5315
14.11	16265	8132
15.11	18418	9209
16.11	11967	5983
17.11	36912	18456
18.11	27881	13941
19.11	22259	11130
20.11	16633	8316
21.11	18080	9040
22.11	51879	25940
23.11	33314	16657
24.11	31679	15839
25.11	11678	5839
26.11	16269	8135
27.11	3625	1812
28.11	11426	5713
29.11	35933	17966
30.11	22889	11444
Total	635829	317915

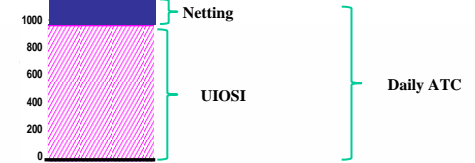
Daily Income [Euro]		Remuneration UIOSI [Euro]	
RO-BG	BG-RO	RO-BG	BG-RO
41337	594492	27055	304500
635829		331555	

TSO Income (Z-R) [Euro]	RO TSO Income (Z-R) [Euro]
304275	152137

Market for Allocation of Cross-Border Capacities

Daily Auctions on Romanian – Serbian border

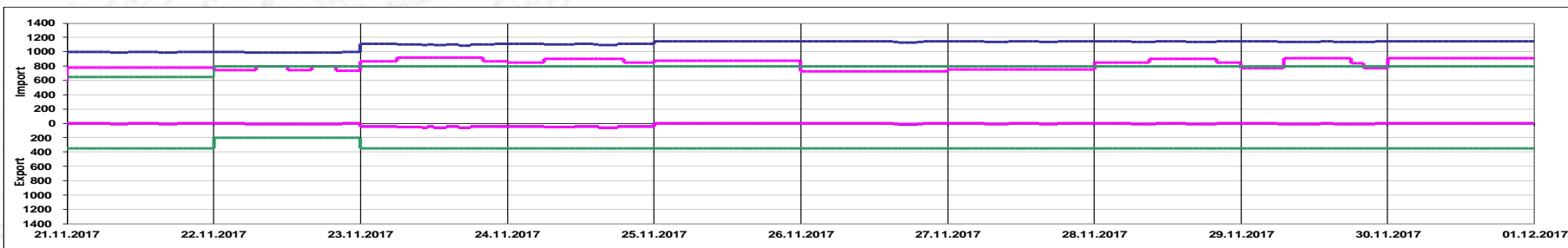
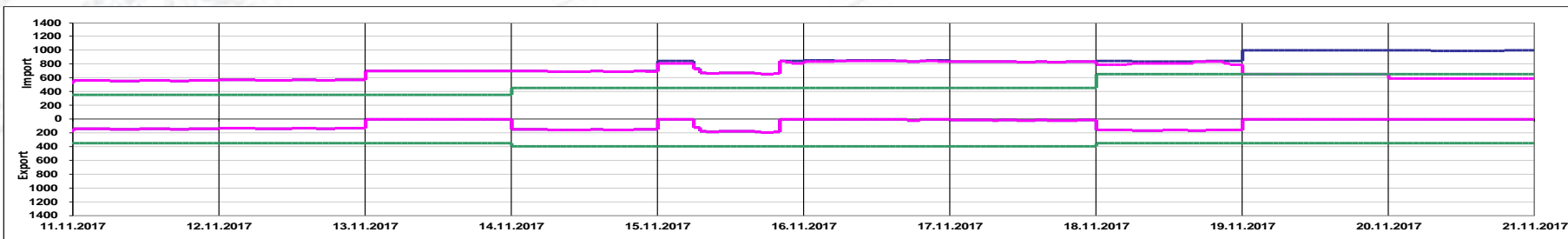
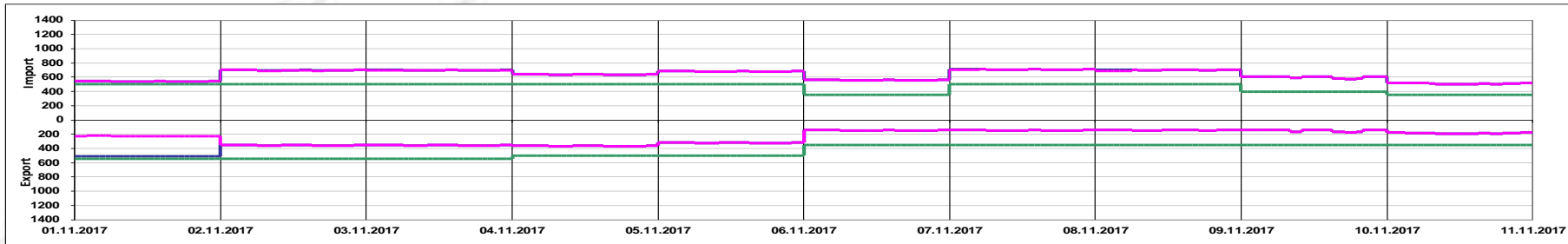
Unused Capacity [MW] average value	
RO-RS	RS-RO
93	540



Serbia November 2017



Serbia November 2017



Offered Capacity on Daily Auction Import (+) / Export (-) [MW]

Allocated Capacity on Daily Auction Import (+) / Export (-) [MW]

Net Transfer Capacity (NTC) Import (+) / Export (-) [MW]

Market for Allocation of Cross-Border Capacities

Daily Auctions on Romanian – Serbian border

Auction Price [Euro/MWh] – Export

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	0.17	0.17	0.17	0.17	0.17	0.17	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.15	0.15	0.15	0.15	0.15	0.15	0.17	0.17	0.17
3	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.36	0.66	0.66
4	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.22	0.22	0.22	0.22	0.22	0.22	0.26	0.26	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.66	0.66	0.66
5	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.02	0.02	0.02	0.02	0.03	0.03	0.02	0.02	0.02	0.02	0.05	0.05	0.05	0.05	0.05	0.05	0.05
6	0.61	0.55	0.55	0.55	0.55	0.55	0.38	0.38	0.38	0.22	0.22	0.22	0.22	0.26	0.26	0.22	0.22	0.22	0.22	0.38	0.38	0.38	0.38	0.68	0.68	0.68
7	0.71	0.71	0.71	0.71	0.71	0.71	0.37	0.37	0.37	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.37	0.37	0.37	0.37	0.78	0.78	0.78
8	1.20	1.20	1.20	1.20	1.20	1.20	1.01	1.70	1.70	1.70	1.70	1.99	1.99	1.99	1.99	1.99	1.99	1.70	1.70	1.70	1.70	1.70	1.56	1.55	1.99	
9	2.56	2.56	2.50	1.76	1.23	0.38	0.38	0.38	0.30	0.30	0.38	0.38	0.38	0.38	0.38	0.30	0.30	0.30	0.30	0.38	0.65	0.76	1.55	1.55	2.56	
10	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
11	0.88	0.88	0.88	0.88	0.88	0.88	0.83	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.37	0.37	0.88
12	0.34	0.34	0.14	0.14	0.14	0.14	0.34	0.34	0.09	0.09	0.09	0.34	0.34	0.34	0.34	0.34	0.34	0.19	0.19	0.19	0.19	0.34	0.34	0.34	0.34	0.34
13	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	5.00	4.00	5.00	4.50	5.25	4.75	4.50	8.75	8.00	8.00	2.00	1.00	1.00	1.00	1.00	1.00	8.75
14	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.38	0.38	0.38	0.38	0.41	0.41	0.43	0.45	0.62	0.62	0.62	
15	1.10	1.10	1.10	1.10	1.10	1.10	0.43	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.88	0.88	0.88	1.10
16	0.56	0.56	0.56	0.56	0.56	0.56	0.33	0.33	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.56	0.56	0.56	0.56
17	3.56	3.56	3.56	2.40	2.40	2.40	2.00	0.33	0.85	0.85	0.85	0.33	0.33	0.33	0.85	0.85	0.33	0.33	0.33	0.33	0.33	0.33	1.25	1.25	1.25	3.56
18	1.44	1.44	1.44	1.44	1.44	1.44	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	1.44
19	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	2.20	4.66	9.90	8.90	9.70	8.85	5.24	0.77	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	9.90
20	3.50	3.50	3.50	3.50	3.50	0.00	0.00	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	15.77	15.77	15.77	15.77	15.77	15.77
21	8.99	8.99	8.99	8.99	8.99	8.99	3.55	0.55	0.55	0.55	3.55	3.55	3.55	3.55	3.55	0.55	0.55	0.55	3.55	3.55	0.77	0.77	0.77	0.77	0.77	8.99
22	3.55	3.55	3.55	3.55	3.55	7.55	7.55	7.55	7.55	7.55	7.55	7.55	7.55	7.55	7.55	7.55	7.55	7.55	7.55	7.55	7.55	7.55	3.55	3.55	3.55	7.55
23	8.04	5.63	4.03	3.25	1.25	1.35	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.56	0.56	0.56	8.04
24	3.12	3.12	3.12	3.12	3.12	3.12	0.36	0.36	0.36	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	1.32	5.56	5.56	5.56	6.70	6.70	6.70
25	5.56	5.56	5.56	5.56	5.56	2.00	2.00	2.00	2.00	4.68	4.68	4.68	4.68	4.68	4.68	4.68	2.00	3.50	3.50	5.56	5.56	5.56	5.56	5.56	5.56	5.56
26	5.56	0.00	0.00	0.00	0.00	2.35	2.35	2.35	2.35	2.35	2.56	2.56	2.56	2.56	2.56	0.26	0.00	0.00	0.00	0.00	5.56	5.56	5.56	5.56	5.56	5.56
27	1.03	1.03	1.03	1.03	1.03	1.03	0.00	0.00	0.00	0.00	1.03	1.03	1.03	1.03	1.03	0.00	0.00	0.00	0.00	1.03	1.03	1.03	1.03	1.03	1.03	1.03
28	7.00	7.00	7.00	7.00	7.00	3.25	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	0.66	0.66	0.66	0.66	0.66	1.03	1.03	1.03	1.03	1.03	7.00
29	3.25	3.25	3.25	3.25	3.25	3.25	1.25	1.25	1.25	1.25	0.44	0.44	0.44	1.03	1.03	0.44	0.44	0.44	0.44	0.44	0.44	0.44	1.03	1.03	1.03	3.25
30	5.56	5.56	5.56	5.56	5.56	5.56	4.50	4.50	4.50	5.12	5.12	5.12	5.12	5.56	5.56	5.12	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	5.56

Serbia November 2017

Market for Allocation of Cross-Border Capacities

Daily Auctions on Romanian – Serbian border

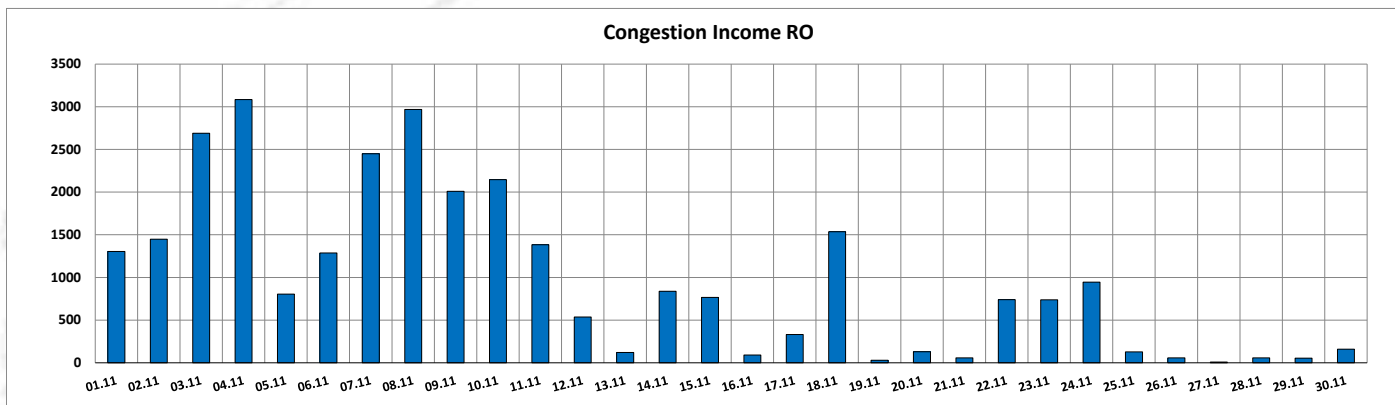
Auction Price [Euro/MWh] – Import

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max
1	0.15	0.15	0.15	0.15	0.15	0.18	0.18	0.18	0.26	0.26	0.15	0.15	0.17	0.15	0.15	0.18	0.18	0.33	0.33	0.33	0.31	0.31	0.15	0.15	0.33
2	0.09	0.09	0.09	0.09	0.09	0.09	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.09	0.09	0.11
3	0.07	0.07	0.07	0.07	0.07	0.07	0.11	0.11	0.15	0.15	0.11	0.11	0.11	0.11	0.11	0.15	0.15	0.27	0.27	0.27	0.26	0.21	0.07	0.07	0.27
4	0.11	0.11	0.11	0.11	0.11	0.11	0.15	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.21	0.36	0.31	0.31	0.31	0.27	0.11	0.11	0.36
5	0.02	0.02	0.02	0.02	0.02	0.02	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.26	0.26	0.09	0.09	0.09	0.09	0.02	0.02	0.26
6	0.06	0.06	0.06	0.06	0.06	0.06	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.06	0.06	0.11
7	0.09	0.09	0.09	0.09	0.09	0.10	0.19	0.22	0.23	0.23	0.21	0.21	0.21	0.21	0.21	0.29	0.29	0.50	0.50	0.26	0.21	0.10	0.09	0.09	0.50
8	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
9	0.02	0.02	0.02	0.02	0.02	0.05	0.06	0.07	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.08	0.09	0.21	0.21	0.21	0.08	0.06	0.05	0.05	0.21
10	0.12	0.12	0.12	0.12	0.17	0.22	0.22	0.22	0.31	0.31	0.22	0.22	0.22	0.22	0.22	0.31	0.41	0.65	0.65	0.65	0.22	0.21	0.17	0.17	0.65
11	0.06	0.06	0.06	0.06	0.06	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.07	0.07	0.07	0.13	0.11	0.11	0.09	0.09	0.06	0.06	0.06	0.13
12	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
13	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
14	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.00	0.00	0.02
15	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.07	0.07	0.11	0.06	0.06	0.06	0.06	0.04	0.04	0.07	0.09	0.09	0.07	0.01	0.00	0.00	0.00	0.11
16	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.01
17	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.02
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.02
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Serbia November 2017

Market for Allocation of Cross-Border Capacities

Daily Auctions on Romanian – Serbian border



Day	Congestion Income border RO-RS [Euro]	Congestion Income RO [Euro]
01.11	2609	1305
02.11	2897	1449
03.11	5379	2690
04.11	6168	3084
05.11	1611	805
06.11	2574	1287
07.11	4900	2450
08.11	5939	2970
09.11	4018	2009
10.11	4291	2146
11.11	2768	1384
12.11	1074	537
13.11	240	120
14.11	1676	838
15.11	1532	766
16.11	180	90
17.11	661	330
18.11	3073	1537
19.11	59	30
20.11	261	130
21.11	115	58
22.11	1478	739
23.11	1474	737
24.11	1891	945
25.11	255	127
26.11	116	58
27.11	16	8
28.11	114	57
29.11	108	54
30.11	320	160
Total	57799	28899

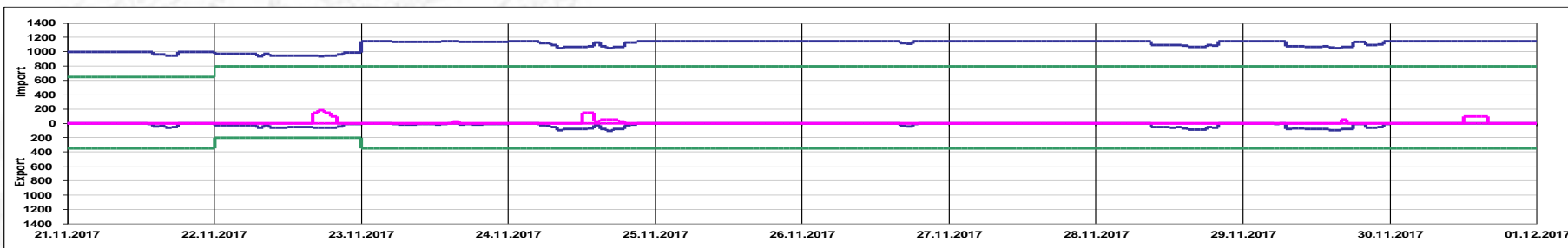
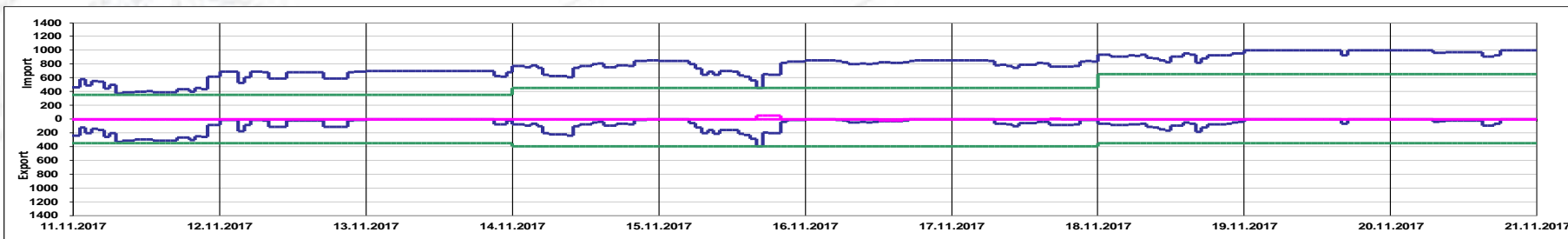
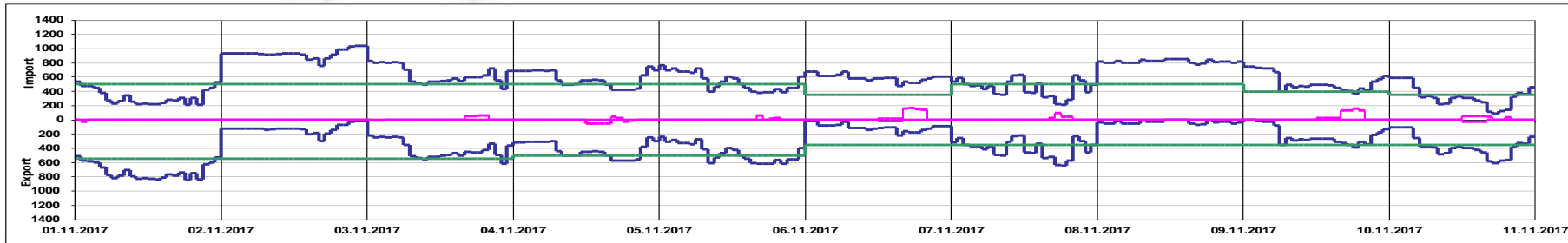
Daily Income [Euro]		Remuneration UIOSI [Euro]	
RO-RS	RS-RO	RO-RS	RS-RO
34982	22817	31486	13896
57799		45381	

TSO Income (Z-R) [Euro]	RO TSO Income (Z-R) [Euro]
12417	6209

Market for Allocation of Cross-Border Capacities

Intraday Auctions on Romanian – Serbian border

Serbia November 2017



Offered Capacity on Intraday Auction Import (+) / Export (-) [MW]

Allocated Capacity on Intraday Auction Import (+) / Export (-) [MW]

Net Transfer Capacity (NTC) Import (+) / Export (-) [MW]

Market for Allocation of Cross-Border Capacities

Intraday Auctions on Romanian – Serbian border

Auction Price [Euro/MWh] - Export

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	-	-	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-	-	-	0.00
17	-	-	-	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	0.00
20	-	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-	-	-	0.00
21	-	-	-	-	-	-	0.00	0.00	0.00	0.00	-	-	-	0.00	0.00	0.00	0.00	0.00	-	-	-	-	-	-	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	-	-	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	-	-	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-	0.00
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	0.00	0.00	0.00	-	-	-	-	0.00
27	-	-	-	-	-	0.00	0.00	0.00	0.00	-	-	-	-	-	-	0.00	0.00	0.00	0.00	-	-	-	-	-	0.00
28	-	-	-	-	-	-	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-	-	-	0.00
29	-	-	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00

Serbia November 2017

Market for Allocation of Cross-Border Capacities

Intraday Auctions on Romanian – Serbian border

Auction Price [Euro/MWh] - Import

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Serbia November 2017

Statistics on Monthly Auction

November 2017		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Hungary export	Number of Capacity Traders	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	-	24	24	24	24	24	24	24	24
	Number of Capacity Holders	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	-	10	10	10	10	10	10	10	10
	Number of Bids	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	-	130	130	130	130	130	130	130	130
Hungary import	Number of Capacity Traders	-	-	-	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	-	18	18	18	18	18	18	18	18
	Number of Capacity Holders	-	-	-	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	-	8	8	8	8	8	8	8	8
	Number of Bids	-	-	-	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	-	87	87	87	87	87	87	87	87
Bulgaria export	Number of Capacity Traders	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	Number of Capacity Holders	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	Number of Bids	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66
Bulgaria import	Number of Capacity Traders	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
	Number of Capacity Holders	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	Number of Bids	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86
Serbia export	Number of Capacity Traders	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	-	12	12	12	12	12	12	12	12
	Number of Capacity Holders	6	6	6	8	8	8	7	7	7	7	7	7	7	7	9	9	9	9	9	9	9	6	6	6	6	6	6	6	6	6
	Number of Bids	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	-	48	48	48	48	48	48	48
Serbia import	Number of Capacity Traders	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	Number of Capacity Holders	4	4	4	7	7	7	4	7	7	6	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	Number of Bids	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
Ukraine export	Number of Capacity Traders	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Number of Capacity Holders	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Number of Bids	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ukraine import	Number of Capacity Traders	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	7	7	7	7	7	
	Number of Capacity Holders	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	5	5	5	5	5	
	Number of Bids	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	24	24	24	24	24	24	24
Moldavia import RO_Cioara	Number of Capacity Traders	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Number of Capacity Holders	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Number of Bids	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Moldavia import RO_Costesti	Number of Capacity Traders	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Number of Capacity Holders	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Number of Bids	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Moldavia import RO_Vulcanesti	Number of Capacity Traders	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Number of Capacity Holders	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Number of Bids	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

November 2017	Maximum	Minimum
Number of Capacity Traders	24	7
Number of Capacity Holders	10	4
Number of Bids	130	21

Statistics on Daily Auctions

November 2017		Daily Auctions																													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Serbia Export	Maximum Number of Capacity Traders	5	7	8	8	5	5	7	9	9	8	9	5	2	8	7	4	7	9	3	3	4	4	7	9	6	2	2	5	4	5
	Maximum Number of Capacity Holders	5	6	5	5	5	4	4	6	5	6	6	4	1	6	5	3	4	4	1	2	2	1	4	4	2	2	2	2	2	2
	Maximum Number of Bids	10	21	23	21	15	13	16	24	20	17	20	16	2	18	16	4	12	17	3	3	8	8	12	18	8	4	2	5	4	6
Serbia Import	Maximum Number of Capacity Traders	6	6	9	9	5	5	9	7	9	9	9	5	5	9	9	9	8	8	4	4	8	8	7	7	6	5	5	8	6	6
	Maximum Number of Capacity Holders	5	5	6	7	5	5	8	7	8	8	8	5	5	8	8	9	8	8	4	4	8	8	7	7	6	5	5	8	6	6
	Maximum Number of Bids	24	21	27	25	19	18	32	21	25	28	24	19	19	24	26	25	23	22	16	15	21	21	22	22	20	18	19	23	22	21
Bulgaria Export	Maximum Number of Capacity Traders	7	8	8	7	4	4	6	5	6	6	7	5	6	6	6	6	7	5	5	5	7	7	6	6	7	6	7	6	7	10
	Maximum Number of Capacity Holders	7	7	8	7	4	4	6	5	6	6	7	5	5	6	6	6	5	5	5	5	6	7	6	6	7	6	6	6	7	7
	Maximum Number of Bids	15	17	19	17	13	13	14	13	16	17	18	15	17	16	16	17	17	12	15	16	18	17	16	17	20	19	22	16	20	24
Bulgaria Import	Maximum Number of Capacity Traders	9	10	9	10	8	8	10	11	11	11	11	7	7	10	10	10	11	9	8	8	10	11	10	12	10	8	8	10	12	11
	Maximum Number of Capacity Holders	6	6	7	4	4	6	8	7	7	7	7	5	6	6	7	7	7	6	6	6	7	6	6	7	9	8	7	8	7	8
	Maximum Number of Bids	19	24	24	29	21	22	23	24	21	25	26	17	14	22	23	20	28	20	21	20	26	31	26	21	22	24	19	21	30	27

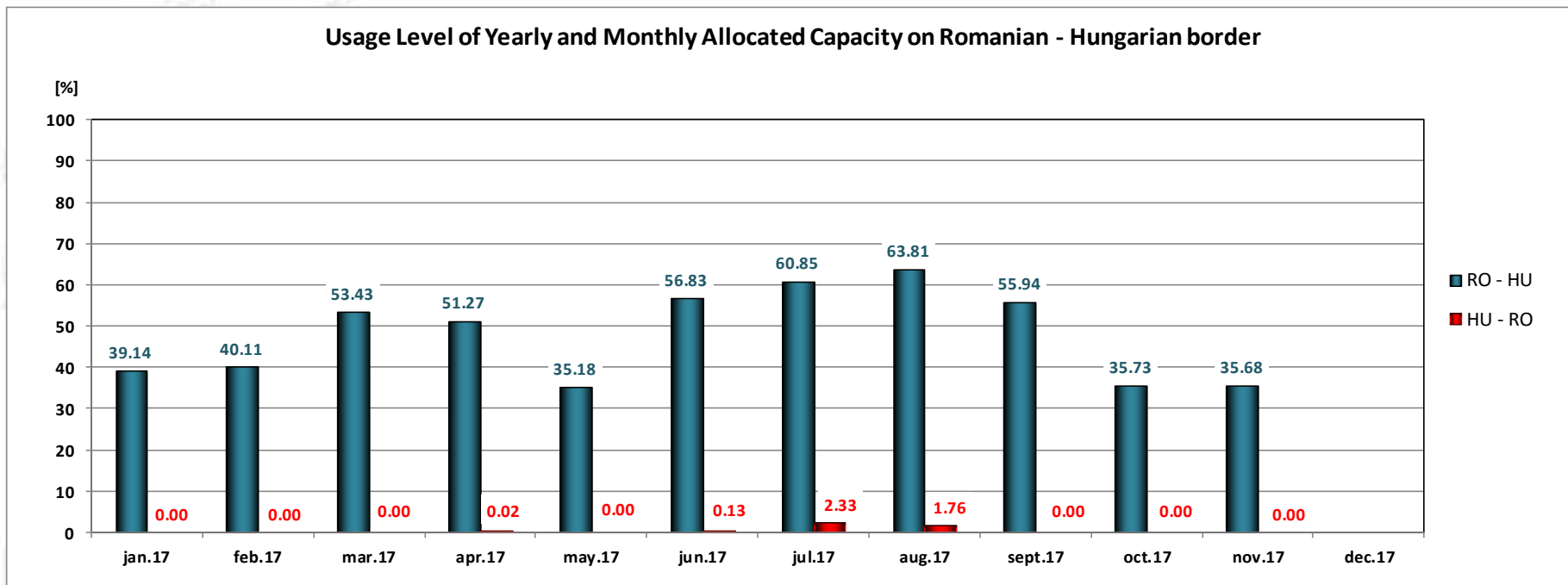
Note: In the table are presented the daily maximum hourly values.

Statistics on Intraday Auctions

November 2017		Intraday Auctions																													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Hungary Export	Maximum Number of Capacity Traders	0	3	3	1	1	2	3	3	3	3	0	0	3	2	3	4	3	0	0	2	2	2	3	2	1	1	3	3	3	0
	Maximum Number of Capacity Holders	-	3	3	1	1	2	3	3	3	3	-	-	2	2	3	4	3	-	-	1	2	2	3	2	1	1	3	3	3	-
Hungary Import	Maximum Number of Capacity Traders	1	2	5	2	1	2	4	4	2	3	0	0	2	3	5	4	3	0	0	3	4	4	3	2	1	1	4	3	4	3
	Maximum Number of Capacity Holders	1	2	5	2	1	2	4	4	1	3	-	-	2	3	5	4	3	-	-	3	4	4	3	2	1	1	4	3	4	3
Serbia Export	Maximum Number of Capacity Traders	1	0	1	1	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	-
	Maximum Number of Capacity Holders	1	-	1	1	-	1	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Serbia Import	Maximum Number of Capacity Traders	0	0	1	1	1	3	1	0	1	1	0	0	0	0	1	0	1	0	0	0	0	0	2	1	1	0	0	0	0	1
	Maximum Number of Capacity Holders	-	-	1	1	1	3	1	-	1	1	-	-	-	-	1	-	1	-	-	-	-	-	2	1	1	-	-	-	-	1

Note: In the table are presented the daily maximum hourly values.

Usage Level of Allocated Capacity

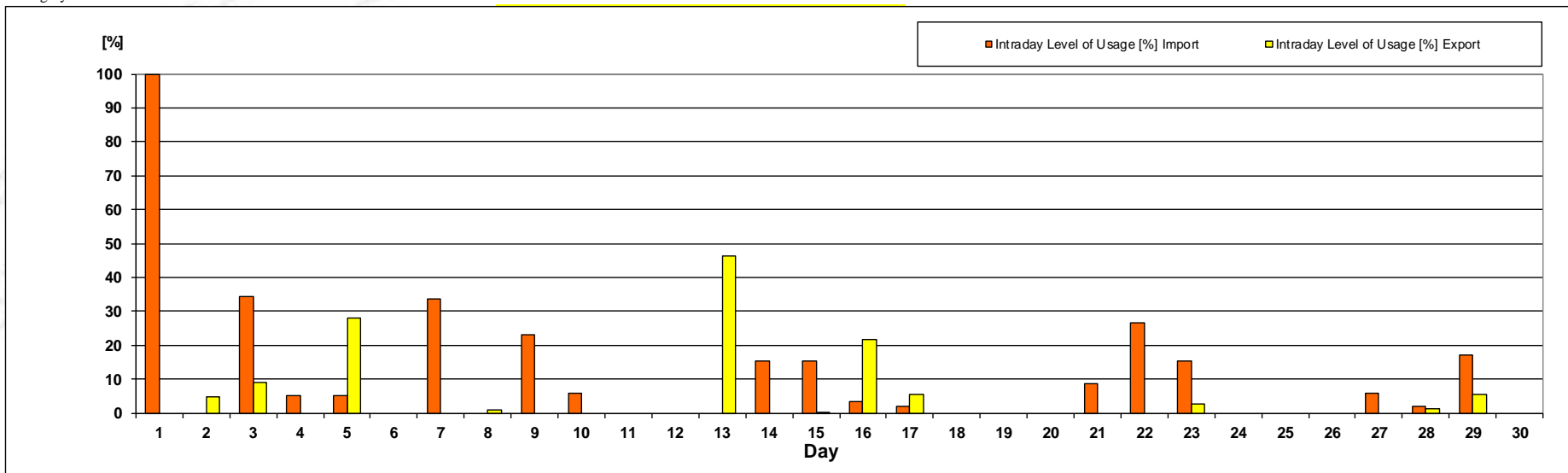


CET

Usage level of yearly and monthly allocated capacity was calculated as ratio between nominated capacity and sum of allocated capacity at yearly and monthly auctions. From the beginning of the year, the average values (arithmetic) of usage level are: 48 % on export direction and 0.39 % on import direction.

Usage Level of Intraday Allocated Capacity

Hungary November 2017



Intraday Level of Usage [%]

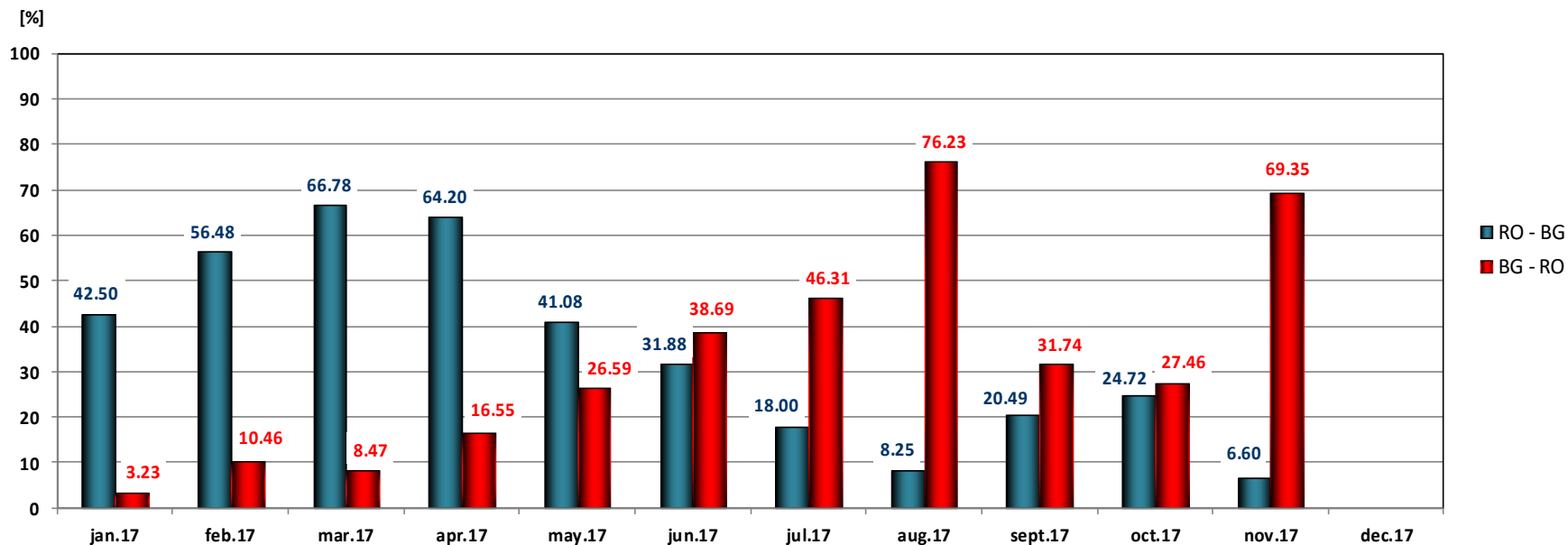
November 2017	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Import	100.00	0.00	34.45	5.24	4.99	0.00	33.54	0.00	23.23	5.66	-	-	0.00	15.19	15.28	3.27	1.80	-	-	0.00	8.61	26.44	15.33	0.00	0.00	0.00	5.73	2.04	17.16	0.00
Export	-	4.68	8.91	0.00	28.13	0.00	0.00	0.82	0.00	0.00	-	-	46.42	0.00	0.31	21.81	5.33	-	-	0.00	0.00	0.00	2.56	0.00	0.00	0.00	0.00	1.31	5.51	-

Level of usage of intraday allocated capacity, calculated at monthly level, as ratio between sum of nominated intraday capacities and sum of intraday allocated capacities, has the following values:

- Import 11.62 [%]
- Export 5.64 [%]

Usage Level of Allocated Capacity

Usage Level of Yearly and Monthly Allocated Capacity on Romanian - Bulgarian border

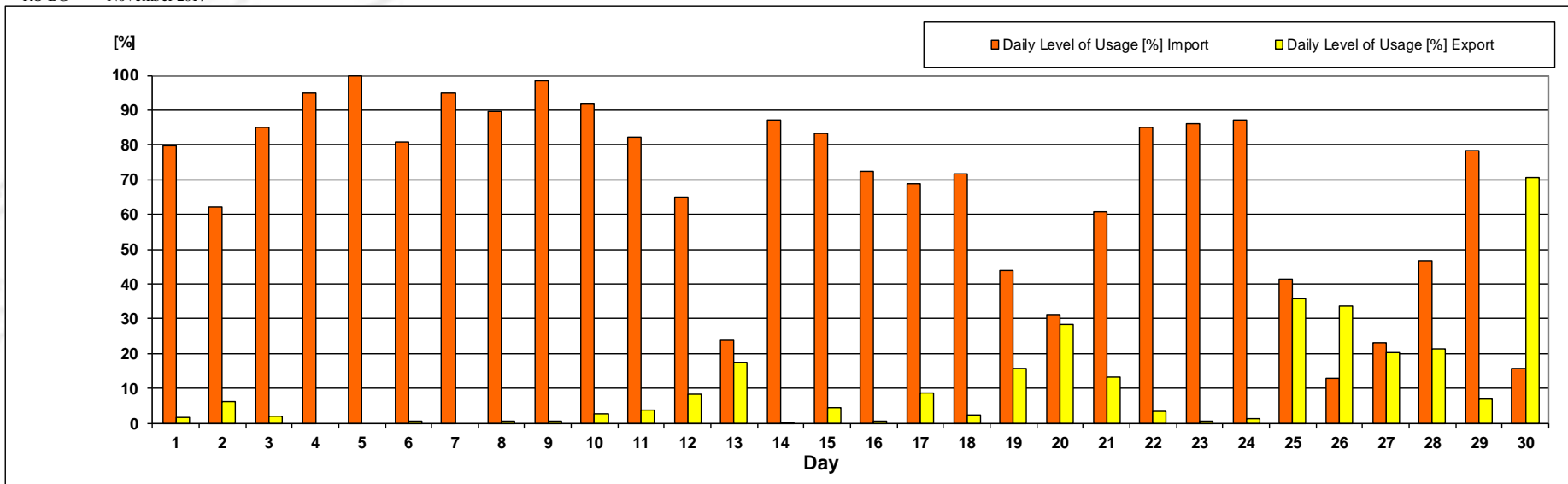


CET

Usage level of yearly and monthly allocated capacity was calculated as ratio between nominated capacity and sum of allocated capacity at yearly and monthly auctions. From the beginning of the year, the average values (arithmetic) of usage level are: 34.63 % on export direction and 32.28 % on import direction.

Usage Level of Daily Allocated Capacity

RO-BG November 2017



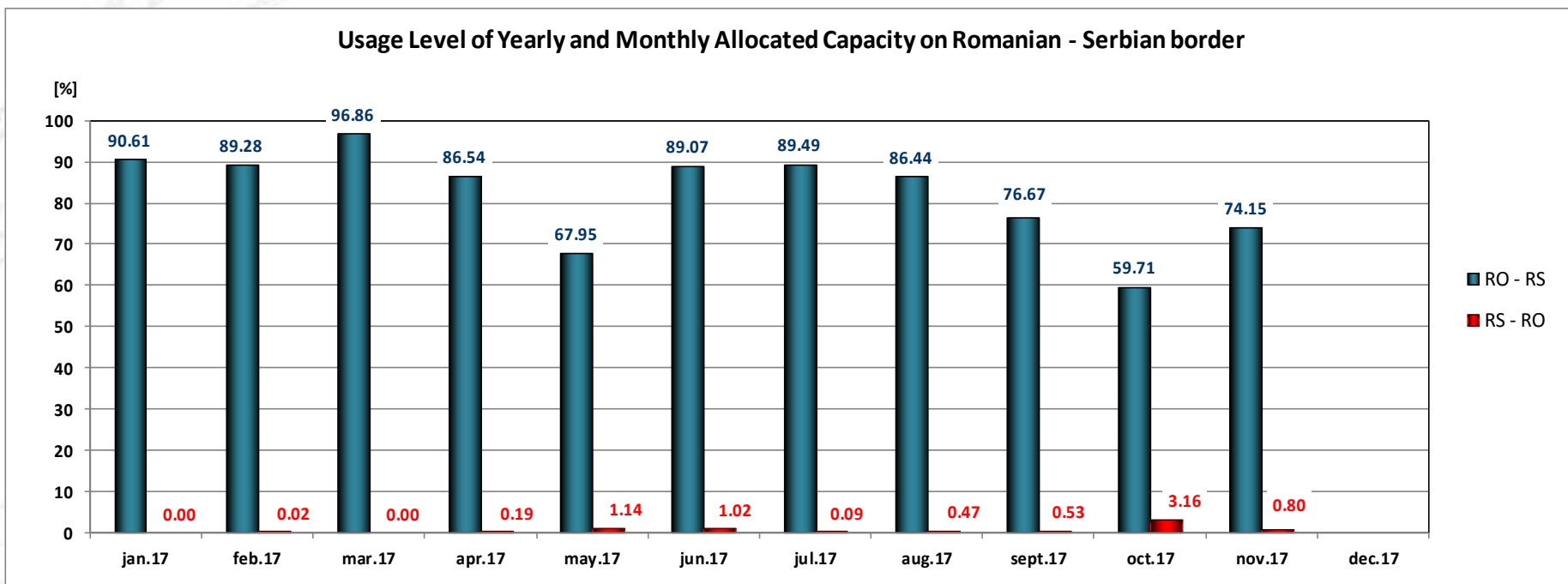
Daily Level of Usage [%]

November 2017	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Import	79.64	62.27	85.21	94.89	100.00	80.78	94.74	89.59	98.54	91.66	82.33	64.84	23.90	87.02	83.20	72.39	68.76	71.67	43.69	31.07	60.63	85.03	86.23	87.15	41.30	12.99	23.04	46.56	78.48	15.59
Export	1.65	6.12	1.77	0.00	0.00	0.39	0.00	0.53	0.66	2.73	3.55	8.38	17.39	0.33	4.31	0.54	8.68	2.39	15.60	28.26	13.17	3.40	0.54	1.20	35.60	33.68	20.28	21.37	6.91	70.61

Level of usage of daily allocated capacity, calculated at monthly level, as ratio between sum of nominated daily capacities and sum of daily allocated capacities, has the following values:

- Import 60.12 [%]
- Export 9.63 [%]

Usage Level of Allocated Capacity

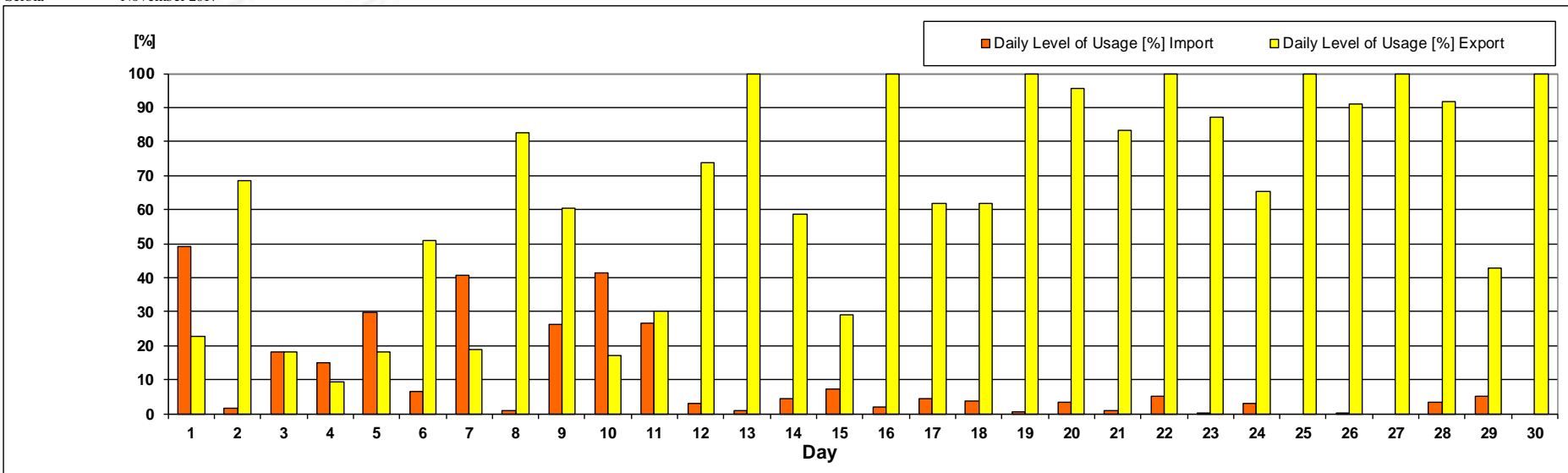


CET

Usage level of yearly and monthly allocated capacity was calculated as ratio between nominated capacity and sum of allocated capacity at yearly and monthly auctions. From the beginning of the year, the average values (arithmetic) of usage level are: 82.43 % on export direction and 0.67 % on import direction.

Usage Level of Daily Allocated Capacity

Serbia November 2017



Daily Level of Usage [%]

November 2017	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Import	49.25	1.50	18.17	15.10	29.58	6.54	40.73	0.86	26.18	41.30	26.67	3.14	1.05	4.57	7.11	2.04	4.54	3.61	0.45	3.50	1.00	5.26	0.32	3.05	0.00	0.29	0.00	3.38	5.12	0.00
Export	22.83	68.38	18.17	9.36	18.00	50.75	18.87	82.73	60.24	17.09	30.15	73.85	100.00	58.65	28.88	100.00	61.76	61.92	100.00	95.76	83.33	100.00	87.11	65.24	100.00	90.91	100.00	91.67	42.65	100.00

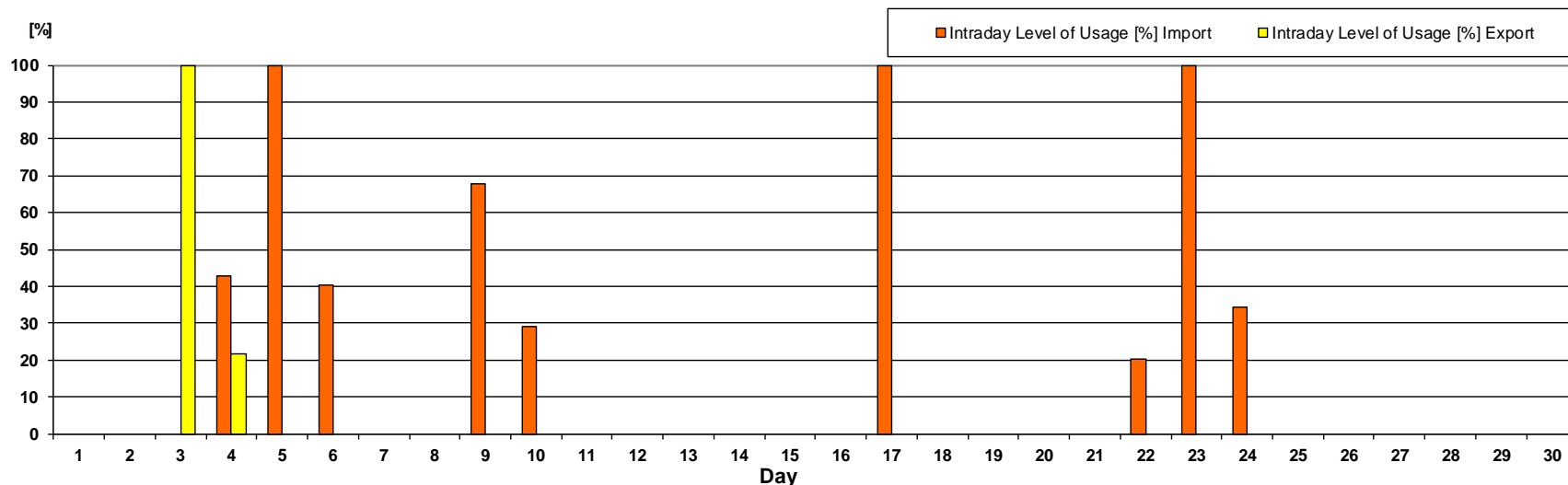
Level of usage of daily allocated capacity, calculated at monthly level, as ratio between sum of nominated daily capacities and sum of daily allocated capacities, has the following values:

- Import 8.87 [%]
- Export 39.47 [%]

Usage Level of Intraday Allocated Capacity

Serbia

November 2017



Intraday Level of Usage [%]

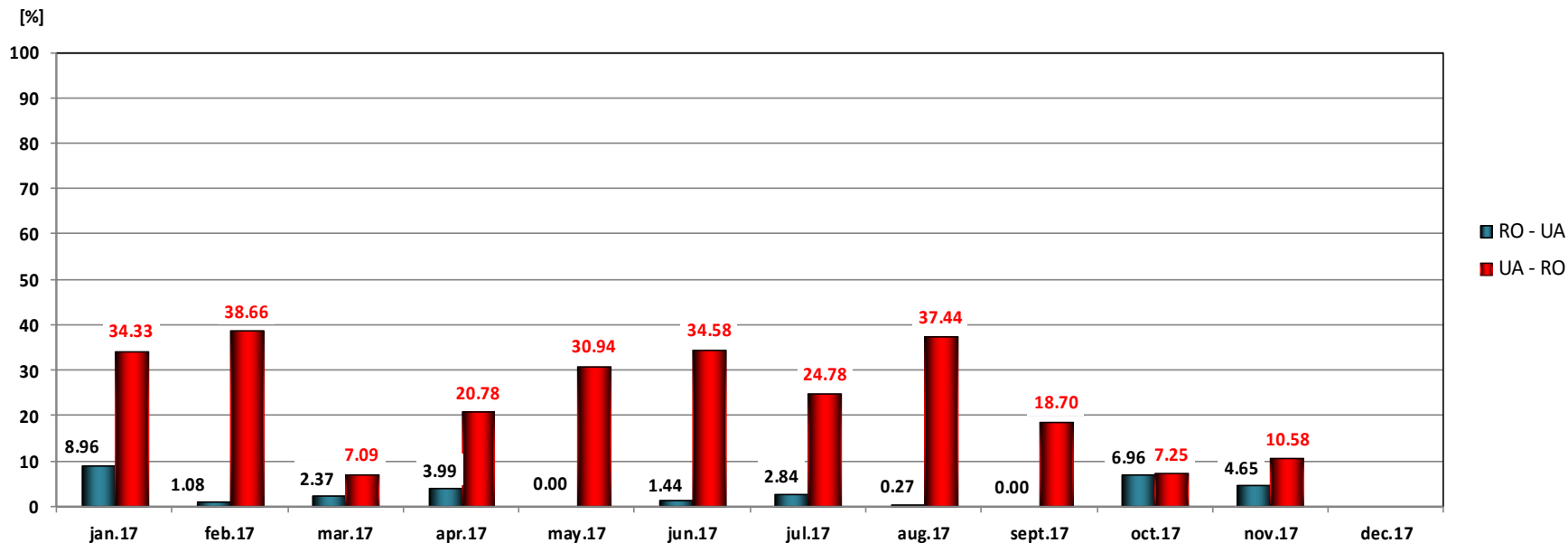
November 2017	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Import	-	-	0.00	42.86	100.00	40.43	0.00	-	67.91	29.08	-	-	-	-	0.00	-	100.00	-	-	-	-	20.17	100.00	34.31	-	-	-	-	0.00	0.00
Export	0.00	-	100.00	21.70	-	0.00	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Level of usage of intraday allocated capacity, calculated at monthly level, as ratio between sum of nominated intraday capacities and sum of intraday allocated capacities, has the following values:

- Import 31.80 [%]
- Export 12.70 [%]

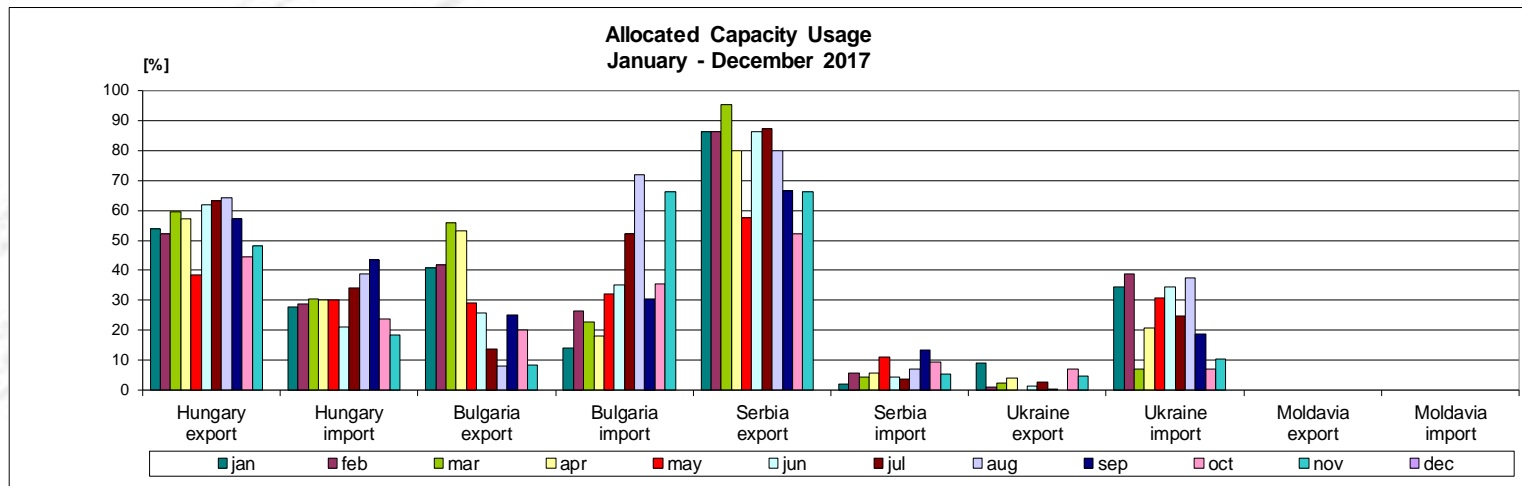
Usage Level of Allocated Capacity

Usage Level of Yearly and Monthly Allocated Capacity on Romanian - Ukrainian border



CET

Usage level of yearly and monthly allocated capacity was calculated as ratio between nominated capacity and sum of allocated capacity at yearly and monthly auctions. From the beginning of the year, the average values (arithmetic) of usage level are: 4.14 % on export direction and 26.69 % on import direction.



The allocated capacity level of usage on one border and direction represents the percentage ratio between the energy associated with the commercial transactions, nominated during a month, and the energy associated with the allocated capacity by the Romanian and by the neighbouring side, to all participants who have or not counterparties on the other side of the border.

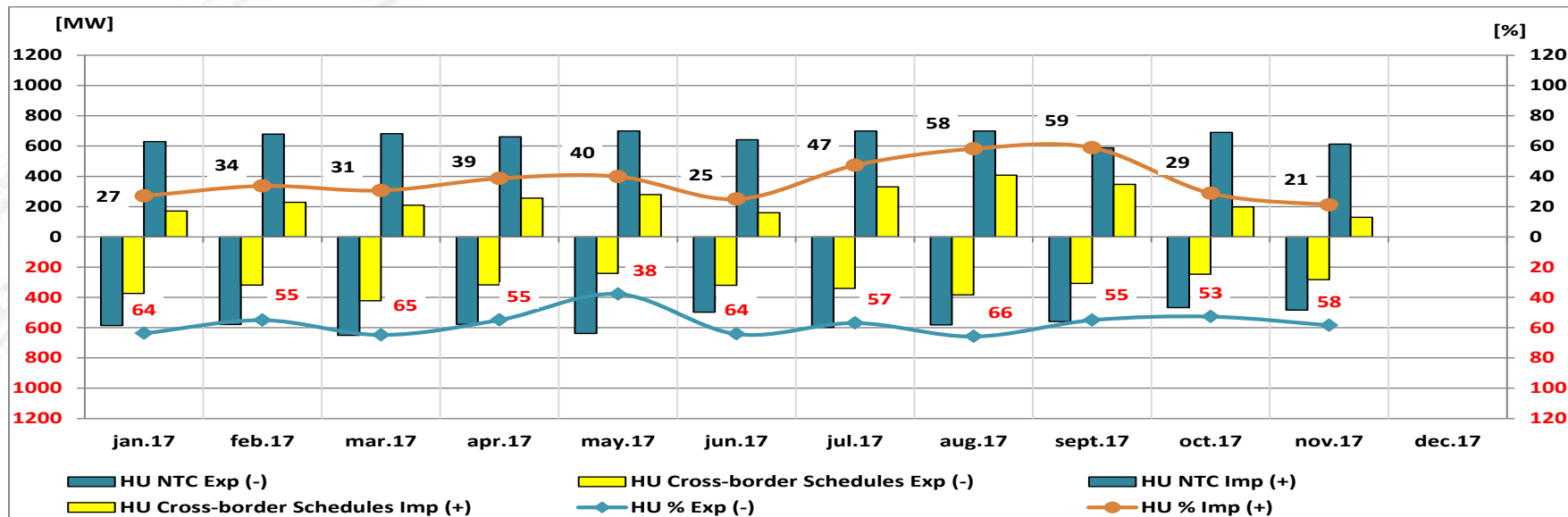
[%]	Hungary export	Hungary import	Bulgaria export	Bulgaria import	Serbia export	Serbia import	Ukraine export	Ukraine import	Moldavia export	Moldavia import
jan	54.00	27.90	40.92	14.26	86.37	2.06	8.96	34.33	-	-
feb	52.10	28.88	41.96	26.52	86.13	5.71	1.08	38.66	-	-
mar	59.59	30.37	55.74	22.71	95.28	4.56	2.37	7.09	-	-
apr	57.19	30.24	53.10	18.01	79.88	5.91	3.99	20.78	-	-
may	38.37	30.22	29.29	32.12	57.44	11.13	0.00	30.94	-	-
jun	61.76	21.02	25.92	35.16	86.38	4.31	1.44	34.58	-	-
jul	63.06	34.20	13.63	52.20	87.06	3.64	2.84	24.78	-	-
aug	64.26	38.71	8.16	71.76	79.92	7.08	0.27	37.44	-	-
sep	57.13	43.43	25.07	30.54	66.52	13.45	0.00	18.70	-	-
oct	44.45	23.81	19.96	35.53	52.03	9.55	6.96	7.25	-	-
nov	48.08	18.50	8.45	66.26	66.08	5.51	4.65	10.58	-	-
dec										
average	54.54	29.75	29.29	36.82	76.64	6.63	2.96	24.10	-	-

Type B

In November 2017, the highest level of usage on export direction was obtained on Serbian border and the highest level of usage on import direction was obtained on Bulgarian border (significant increase compared with previous month).

Usage Level of NTC on Romanian – Hungarian border

CET

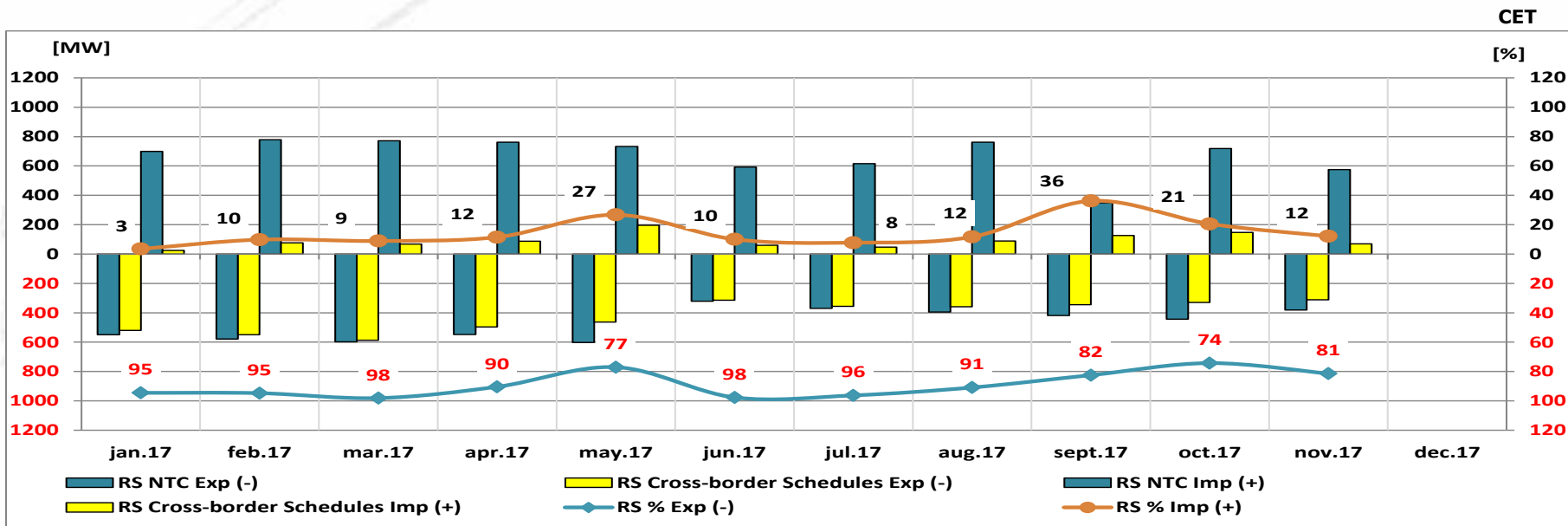


Hungary (monthly averages values, MW)	jan.17	feb.17	mar.17	apr.17	may.17	jun.17	jul.17	aug.17	sept.17	oct.17	nov.17	dec.17
HU NTC Exp (-)	-585	-579	-651	-578	-639	-498	-598	-582	-560	-468	-483	
HU Cross-border Schedules Exp (-)	-373	-319	-422	-318	-242	-320	-341	-384	-308	-247	-283	
HU NTC Imp (+)	629	679	682	662	700	642	700	700	588	690	613	
HU Cross-border Schedules Imp (+)	170	229	209	256	279	160	331	408	347	199	130	

The level of usage was calculated as ratio between total cross-border schedules (capacity nominated on long and short term) and NTC.

From the beginning of the year, the average values (arithmetic) of usage level are: 57.24 % on export direction and 37.2 % on import direction.

Usage Level of NTC on Romanian – Serbian border



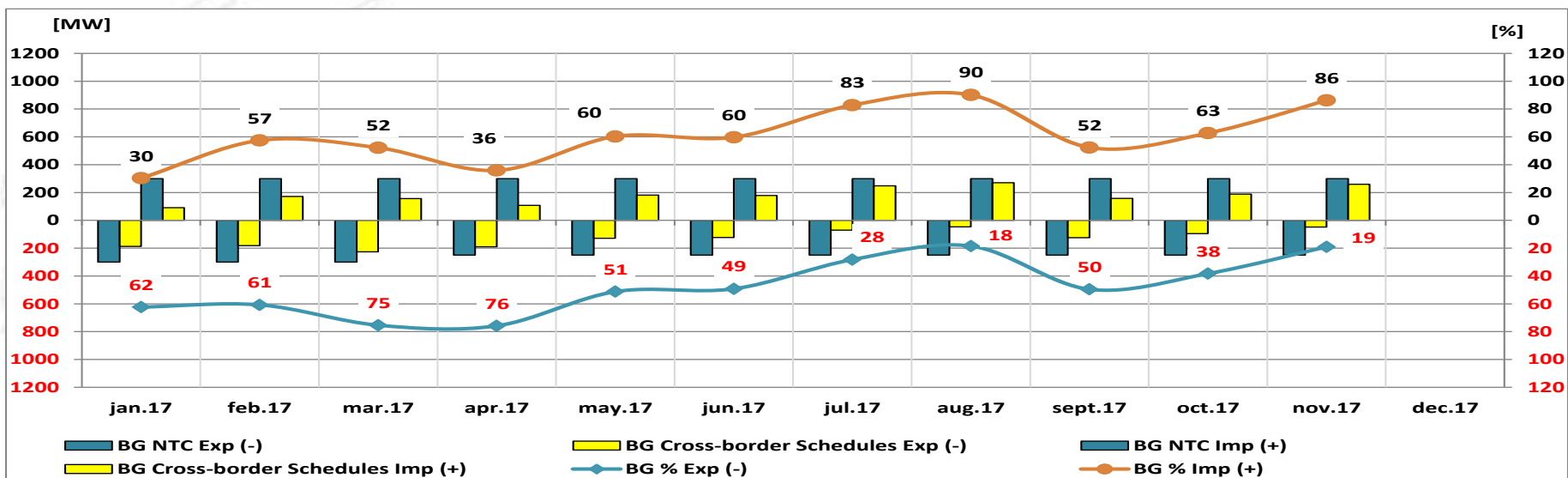
Serbia (monthly averages values, MW)	jan.17	feb.17	mar.17	apr.17	may.17	jun.17	jul.17	aug.17	sept.17	oct.17	nov.17	dec.17
RS NTC Exp (-)	-550	-579	-598	-548	-602	-322	-369	-395	-418	-444	-382	
RS Cross-border Schedules Exp (-)	-520	-549	-586	-496	-464	-314	-356	-359	-345	-330	-311	
RS NTC Imp (+)	700	779	772	762	732	592	616	761	348	719	575	
RS Cross-border Schedules Imp (+)	24	76	69	88	196	59	48	89	126	148	70	

The level of usage was calculated as ratio between total cross-border schedules (capacity nominated on long and short term) and NTC.

From the beginning of the year, the average values (arithmetic) of usage level are: 88.91 % on export direction and 14.44 % on import direction.

Usage Level of NTC on Romanian – Bulgarian border

CET

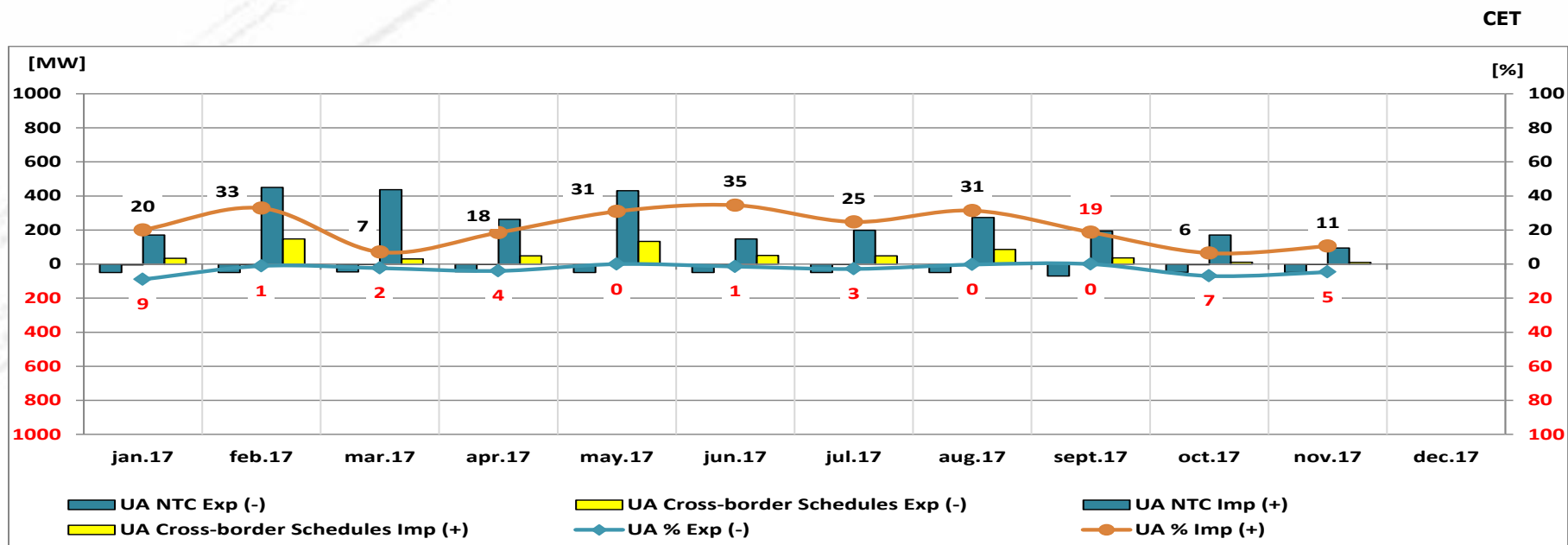


Bulgaria (monthly averages values, MW)	jan.17	feb.17	mar.17	apr.17	may.17	jun.17	jul.17	aug.17	sept.17	oct.17	nov.17	dec.17
BG NTC Exp (-)	-300	-300	-300	-250	-250	-250	-250	-250	-250	-250	-250	
BG Cross-border Schedules Exp (-)	-187	-182	-226	-190	-128	-123	-71	-46	-124	-96	-48	
BG NTC Imp (+)	300	300	300	300	300	300	300	300	300	300	300	
BG Cross-border Schedules Imp (+)	91	172	157	108	181	179	248	270	157	188	259	

The level of usage was calculated as ratio between total cross-border schedules (capacity nominated on long and short term) and NTC.

From the beginning of the year, the average values (arithmetic) of usage level are: 48.02 % on export direction and 60.92 % on import direction.

Usage Level of NTC on Romanian – Ukrainian border



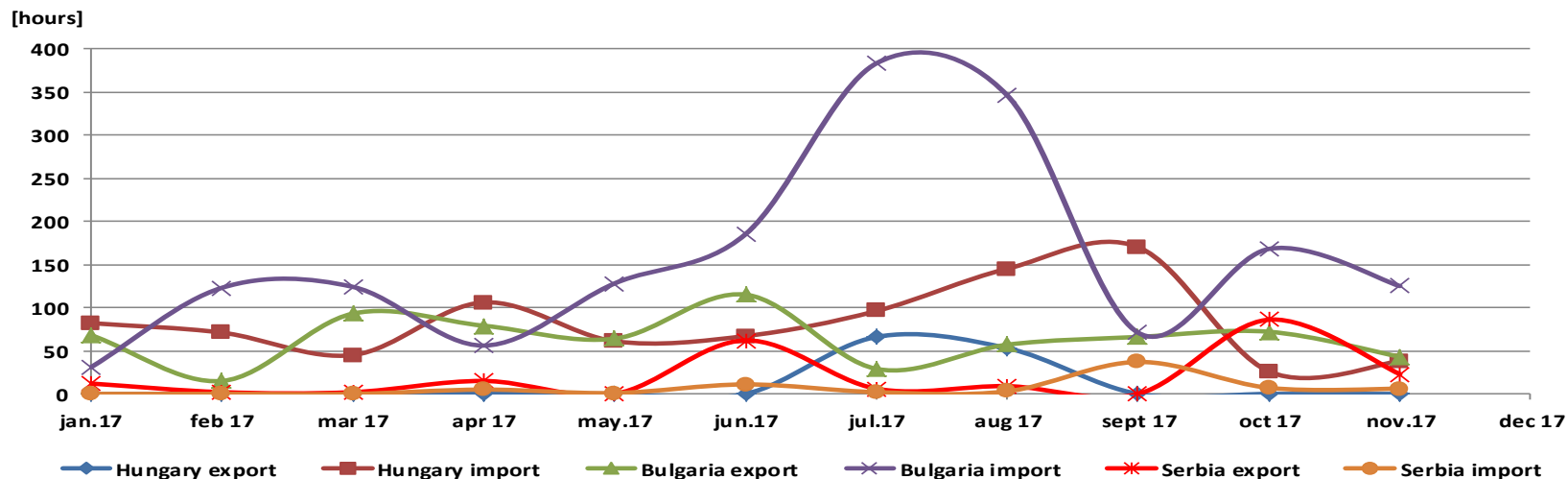
Ukraine (monthly averages values, MW)	jan.17	feb.17	mar.17	apr.17	may.17	jun.17	jul.17	aug.17	sept.17	oct.17	nov.17	dec.17
UA NTC Exp (-)	-50	-50	-45	-45	-50	-50	-50	-50	-70	-48	-50	
UA Cross-border Schedules Exp (-)	-4	-1	-1	-2	0	-1	-1	0	0	-3	-2	
UA NTC Imp (+)	171	450	438	263	431	148	198	274	193	171	95	
UA Cross-border Schedules Imp (+)	34	148	31	49	133	51	49	86	36	11	10	

The level of usage was calculated as ratio between total cross-border schedules (capacity nominated on long and short term) and NTC.

From the beginning of the year, the average values (arithmetic) of usage level are: 2.96 % on export direction and 21.45 % on import direction.

Maximization of NTC Usage

Number of hours in which the sum of nominated cross-border schedules is higher than NTC



Number of hours	jan.17	feb 17	mar 17	apr 17	may.17	jun.17	jul.17	aug 17	sept 17	oct 17	nov.17	dec 17
Hungary export	0	0	0	1	0	0	66	53	0	0	0	
Hungary import	82	71	45	106	61	67	96	145	170	26	38	
Bulgaria export	68	15	93	79	64	115	29	57	66	72	43	
Bulgaria import	31	123	124	56	128	185	383	346	71	168	125	
Serbia export	12	2	2	15	0	62	6	9	0	86	23	
Serbia import	0	0	0	5	1	11	2	3	37	7	6	

By making efficient use of the interconnection (applying “netting” principle in daily and intra-day offered capacity calculation) there are some hours in which sum of nominated cross-border schedules is higher than the NTC.

Synthesis (C1, C3, HHI) on type of auction and total values

November 2017

Border	Auction												Total		
	Yearly			Monthly			Daily			Intraday			C1 [%]	C3 [%]	HHI
	C1 [%]	C3 [%]	HHI	C1 [%]	C3 [%]	HHI	C1 [%]	C3 [%]	HHI	C1 [%]	C3 [%]	HHI			
<i>Hungary import</i>	22.06	55.59	1490	37.50	73.20	2346	-	-	-	35.02	79.39	2515	20.86	47.25	1122
<i>Hungary export</i>	30.86	55.71	1498	28.86	56.36	1551	-	-	-	43.54	96.82	3590	26.97	48.14	1191
<i>Bulgaria import</i>	43.00	92.00	3564	25.00	56.25	1465	26.96	62.02	1647	-	-	-	27.70	52.16	1324
<i>Bulgaria export</i>	41.00	76.00	2472	37.50	66.67	2113	49.38	88.87	3484	-	-	-	39.15	69.25	2146
<i>Serbia import</i>	46.67	93.33	3844	45.99	88.49	3489	34.17	83.53	2493	67.18	100.00	5222	36.39	67.97	2067
<i>Serbia export</i>	39.50	70.00	2273	22.72	61.55	1707	33.07	69.92	2117	77.82	100.00	6394	24.72	50.95	1261
<i>Ukraine import</i>	50.00	100.00	4808	33.33	90.00	2790	-	-	-	-	-	-	40.11	82.21	2714
<i>Ukraine export</i>	48.00	100.00	3728	-	-	-	-	-	-	-	-	-	48.00	100.00	3728
<i>Moldavia import</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note:

- Starting with 20.11.2014, on Hungarian border the implicit daily allocation is done through the market coupling mechanism of CZ-SK-HU day-ahead electricity markets.
- Starting with 01.01.2015, intraday auctions are no longer organized on the Bulgarian border, since the Bulgarian market rules do not allow intraday cross-border exchanges.

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