



Transelectrica®
Societate Administrată în Sistem Dualist

MARKET MONITORING REPORT

Market for Allocation of Cross-Border Capacities

November 2019



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

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 base, 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**

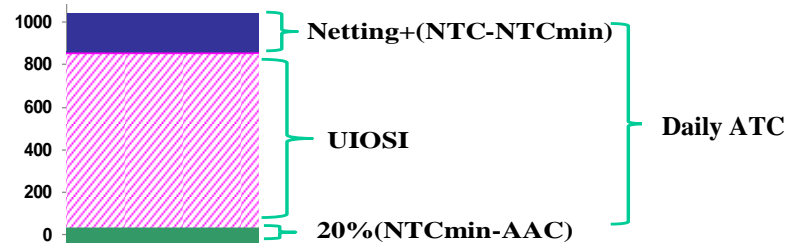
General Remarks



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- According to the agreements between Transelectrica and neighbors for year 2019 :
 - ✓ on the Bulgarian border, the bilateral coordinated allocation is done for 100% of total capacity by Transelectrica for daily auctions. Starting with 20.11.2019, implicit intraday allocation with continuous trading is organized on the Bulgarian border, due to the integration of Romanian intraday market in SIDC (Single Intra-Day Market). In the event of decoupling, no explicit intraday auctions are organized on RO – BG border; the “netting” is applied to daily and intraday allocation.
 - ✓ on the Hungarian border, the bilateral coordinated allocation, is done for 100% of total capacity by Transelectrica for intraday auctions from the period 01 – 19.11.2019. Starting with 20.11.2019, implicit intraday allocation with continuous trading is organized on the Hungarian border, due to the integration of Romanian intraday market in SIDC (Single Intra-Day Market). In the event of decoupling, no explicit intraday auctions are organized on RO – HU border. 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 intraday 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 and intra-day auctions. The “netting” is applied to daily and intra-day allocation. 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.
 - ✓ *UIOSI* („ use it or sell it”) principle is applied on Hungarian, Bulgarian and Serbian borders.
 - ✓ starting with 01.01.2019, the long term auctions on Hungarian and Bulgarian borders are held by Joint Allocation Office (JAO) based on Allocation Rules for Forward Capacity Allocation (HAR) and border specific Annex. On these borders it is applied:
 - ✓ 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;



- Transelectrica’s auctions are held on Damas platform, with euro currency trading;
- On Romania – Bulgaria, Romania – Serbia and Romania – Hungary border, the use of the physical transport rights is performed in accordance with the m:n nomination principle, for all time horizons.



- Long term auction results on the Hungarian and Bulgarian borders are provide by JAO and daily auction results on the Serbian border (auction prices, allocated capacities) are provided by the respective TSO.
- 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.
- Monthly auctions for November 2019 were held as:
 - ✓ import Hungary*: 01 – 30.11.2019;
 - ✓ export Hungary: 01.11.2019; 02 – 03.11.2019; 04 – 10.11.2019; 11 – 15.11.2019; 16 – 27.11.2019; 28.11.2019; 29 – 30.11.2019;
 - ✓ import/export Bulgaria*: 01 – 30.11.2019;
 - ✓ import Serbia: 01.11.2019; 02 – 10.11.2019; 11 – 15.11.2019; 16 – 27.11.2019; 28.11.2019; 29 – 30.11.2019;
 - ✓ export Serbia: 01 – 03.11.2019; 04 – 10.11.2019; 11 – 15.11.2019; 16 – 27.11.2019; 28.11.2019; 29 – 30.11.2019;
 - ✓ import Ukraine: 01.11.2019; 02 – 03.11.2019; 04 – 08.11.2019; 09 – 10.11.2019; 11.11.2019; 12 – 15.11.2019; 16 – 30.11. 2019;
 - ✓ export Ukraine: 01 – 30.11.2019.
- In November 2019 there were no auctions held on Moldavian border.

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

Market for Allocation of Cross-Border Capacities



Monthly auction Results of 01 – 30 November 2019

	Prices [euro/MWh]	Capacities [MW]								
	Results	TTC	NTC	ATC	AAC	Reserved	Offered	Requested	Alocated	Final Rights*
Hungary export										
01 November 2019	0.57	550	450	100	350	4	84	1250	80	426
02 - 03 November 2019	0.57	600	500	150	350	4	124	1250	123	469
04 - 10 November 2019	0.57	500	400	50	350	4	44	1250	40	386
11 - 15 November 2019	0.57	450	350	0	350	4	4	1250	1	347
16 - 27 November 2019	0.57	500	400	50	350	4	44	1250	40	386
28 November 2019	0.57	450	350	0	350	4	4	1250	1	347
29 - 30 November 2019	0.57	500	400	50	350	4	44	1250	40	386
Hungary import										
01 November 2019	2.00	750	650	300	350	0	120	1543	120	470
02 - 27 November 2019	2.00	800	700	350	350	0	120	1543	120	470
28 November 2019	2.00	600	500	150	350	0	120	1543	120	470
29 - 30 November 2019	2.00	800	700	350	350	0	120	1543	120	470
Bulgaria export										
01 - 11 November 2019	0.37	500	400	251	149	20	220	1335	219	348
12 - 30 November 2019	0.37	600	500	351	149	20	220	1335	219	348
Bulgaria import										
01 - 11 November 2019	1.42	500	400	250	150	3	203	1426	203	350
12 - 30 November 2019	1.42	600	500	350	150	3	203	1426	203	350

Note: ATC values on Hungarian and Bulgarian borders are calculated before the reservation of capacity. Offered capacity includes reservation and returned capacity.

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



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Market for Allocation of Cross-Border Capacities

Monthly auction Results of 01 – 30 November 2019

	Prices [euro/MWh]	Capacities [MW]								
	Results	TTC	NTC	ATC	AAC	Reserved	Offered	Requested	Alocated	Final Rights*
Serbia export										
01 - 03 November 2019	0.26	500	400	200	200	-	200	558	200	400
04 - 10 November 2019	0.32	450	350	150	200	-	150	504	150	350
11 - 15 November 2019	0.51	350	250	50	200	-	50	268	50	250
16 - 27 November 2019	0.26	500	400	200	200	-	200	523	200	400
28 November 2019	0.37	350	250	50	200	-	50	243	50	250
29 - 30 November 2019	0.23	500	400	200	200	-	200	453	200	400
Serbia import										
01 November 2019	0.56	750	650	450	200	-	450	913	450	650
02 - 10 November 2019	0.11	900	800	600	200	-	600	1065	600	800
11 - 15 November 2019	0.17	800	700	500	200	-	500	1098	500	700
16 - 27 November 2019	0.10	900	800	600	200	-	600	1248	600	800
28 November 2019	0.17	800	700	500	200	-	500	1143	500	700
29 - 30 November 2019	0.08	900	800	600	200	-	600	1150	600	800
Ukraine export										
01 - 30 November 2019	0.07	150	50	50	-	-	50	90	50	50
Ukraine import										
01 November 2019	0.73	150	50	50	-	-	50	120	50	50
02 - 03 November 2019	0.35	350	250	250	-	-	250	520	250	250
04 - 08 November 2019	0.45	500	400	400	-	-	400	760	400	400
09 - 10 November 2019	0.65	350	250	250	-	-	250	545	250	250
11 November 2019	0.57	250	150	150	-	-	150	290	150	150
12 - 15 November 2019	0.73	150	50	50	-	-	50	125	50	50
16 - 30 November 2019	0.55	450	350	350	-	-	350	730	350	350
Moldavia export										
01 - 30 November 2019	-	-	-	-	-	-	-	-	-	-
Moldavia import										
01 - 30 November 2019	-	-	-	-	-	-	-	-	-	-
RO_Vulcanesti										
01 - 30 November 2019	-	-	-	-	-	-	-	-	-	-
RO_Costesti										
01 - 30 November 2019	-	-	-	-	-	-	-	-	-	-
RO_Cioara										
01 - 30 November 2019	-	-	-	-	-	-	-	-	-	-

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

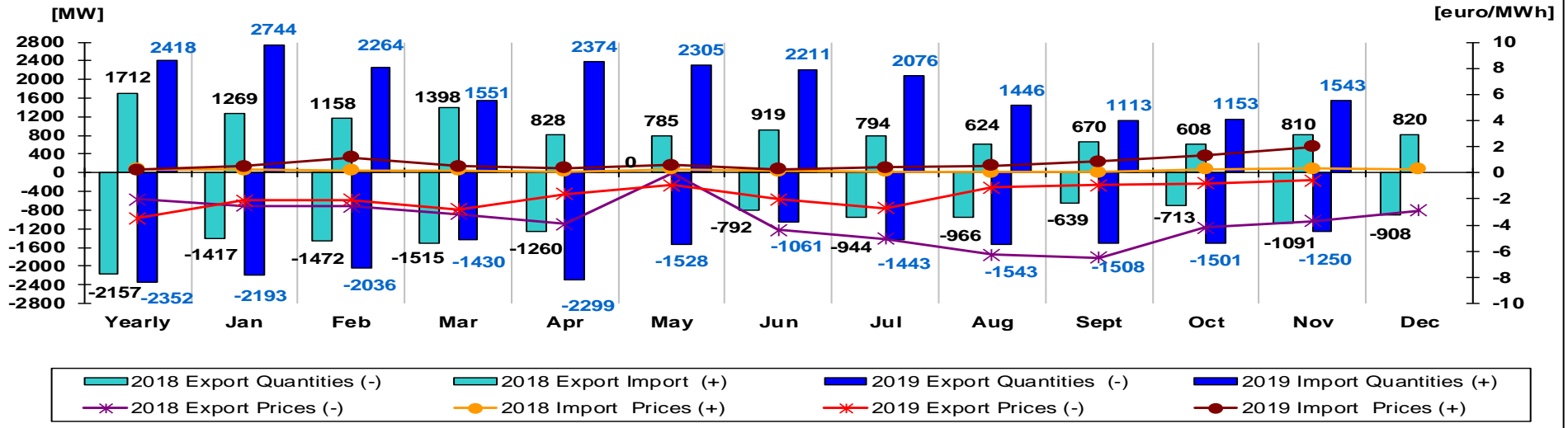


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Market for Allocation of Cross-Border Capacities

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



Border	Yearly	Jan. 19	Feb.19	Mar.19	Apr.19	May 19	Jun. 19	Jul. 19	Aug. 19	Sept. 19	Oct. 19	Nov.19	Dec. 19
Hungary export	3.46	2.14	2.07	2.81	1.61	0.96	2.02	2.71	1.13	0.94	0.81	0.57	
Hungary import	0.24	0.51	1.19	0.49	0.37	0.59	0.27	0.42	0.56	0.87	1.31	2.00	

Border	Yearly	Jan. 18	Feb.18	Mar.18	Apr.18	May 18	Jun. 18	Jul. 18	Aug. 18	Sept. 18	Oct. 18	Nov.18	Dec. 18
Hungary export	2.03	2.52	2.56	3.14	3.92	-	4.36	5.05	6.27	6.51	4.18	3.69	2.87
Hungary import	0.27	0.23	0.20	0.17	0.09	0.25	0.16	0.08	0.04	0.06	0.28	0.30	0.26

- Compared with previous year, in November 2019 the auction price significantly decreased on export direction, while offered capacity was lower and capacity request was higher. Compared with the similar period of the previous year, the auction price increased on import direction, while capacity request was higher and offered capacity was lower.

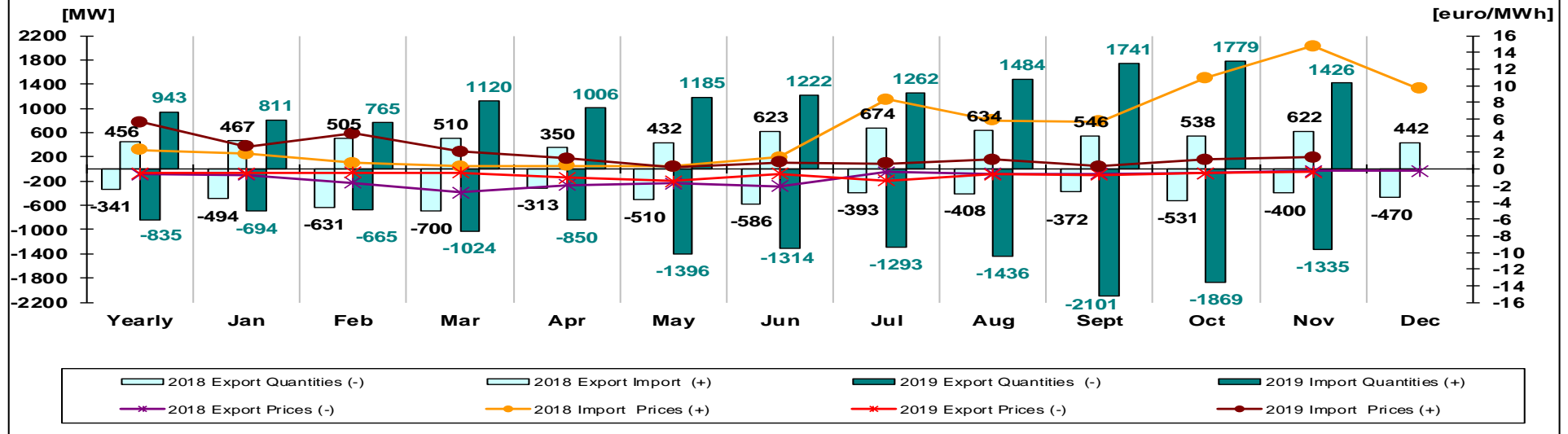


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Market for Allocation of Cross-Border Capacities

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



Border	Yearly	Jan. 19	Feb.19	Mar.19	Apr.19	May 19	Jun. 19	Jul. 19	Aug. 19	Sept. 19	Oct. 19	Nov.19	Dec. 19
Bulgaria export	0.51	0.47	0.44	0.46	1.03	1.45	0.58	1.36	0.61	0.71	0.51	0.37	
Bulgaria import	5.60	2.67	4.24	2.09	1.27	0.27	0.82	0.68	1.11	0.31	1.11	1.42	

Border	Yearly	Jan. 18	Feb.18	Mar.18	Apr.18	May 18	Jun. 18	Jul. 18	Aug. 18	Sept. 18	Oct. 18	Nov.18	Dec. 18
Bulgaria export	0.62	0.69	1.67	2.81	1.92	1.75	2.05	0.33	0.55	0.55	0.49	0.26	0.22
Bulgaria import	2.27	1.83	0.72	0.33	0.40	0.30	1.40	8.33	5.85	5.69	10.96	14.78	9.63

- Compared with previous year, in November 2019 the auction price slightly varied on export direction, while offered capacity and capacity request were higher. The auction price significantly decreased on import direction, while offered capacity did not vary and capacity request was higher.

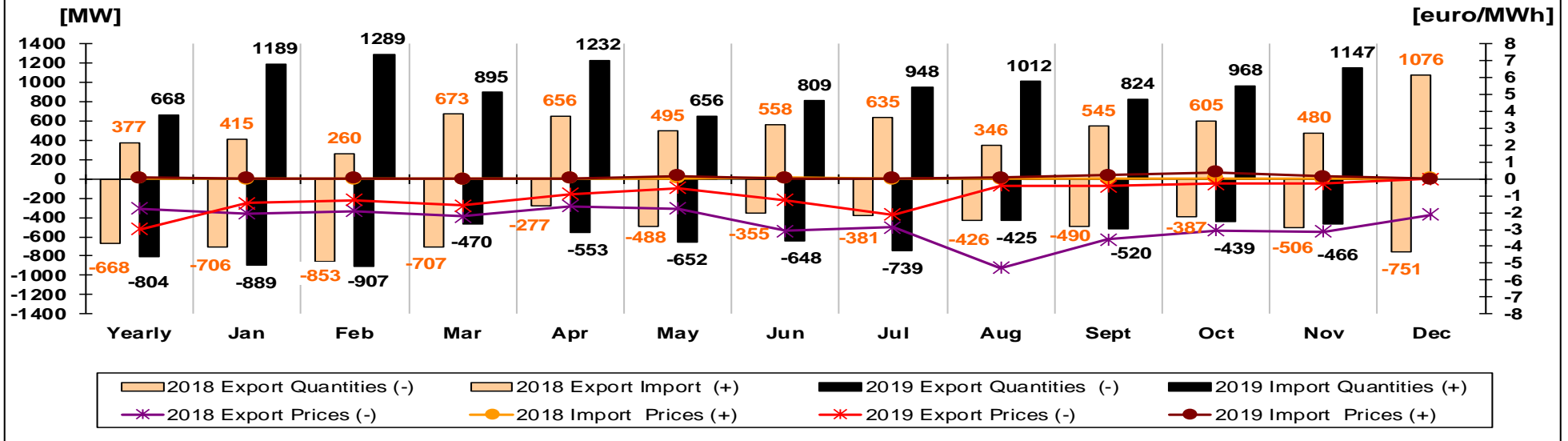


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Market for Allocation of Cross-Border Capacities

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



Border	Yearly	Jan. 19	Feb.19	Mar.19	Apr.19	May 19	Jun. 19	Jul. 19	Aug. 19	Sept. 19	Oct. 19	Nov.19	Dec. 19
Serbia export	2.97	1.42	1.27	1.58	0.88	0.55	1.24	2.13	0.38	0.45	0.28	0.29	
Serbia import	0.07	0.03	0.03	0.01	0.03	0.16	0.04	0.03	0.06	0.21	0.39	0.13	

Border	Yearly	Jan. 18	Feb.18	Mar.18	Apr.18	May 18	Jun. 18	Jul. 18	Aug. 18	Sept. 18	Oct. 18	Nov.18	Dec. 18
Serbia export	1.75	2.03	1.91	2.22	1.62	1.75	3.08	2.89	5.27	3.60	3.04	3.12	2.12
Serbia import	0.05	0.00	0.00	0.01	0.04	0.03	0.08	0.01	0.00	0.01	0.03	0.00	0.02

- Compared with previous year, in November 2019 the auction price decreased on export direction, while offered capacity and capacity request were lower. In November 2019, monthly auction price slightly increased on import direction, while offered capacity decreased and capacity request was higher.

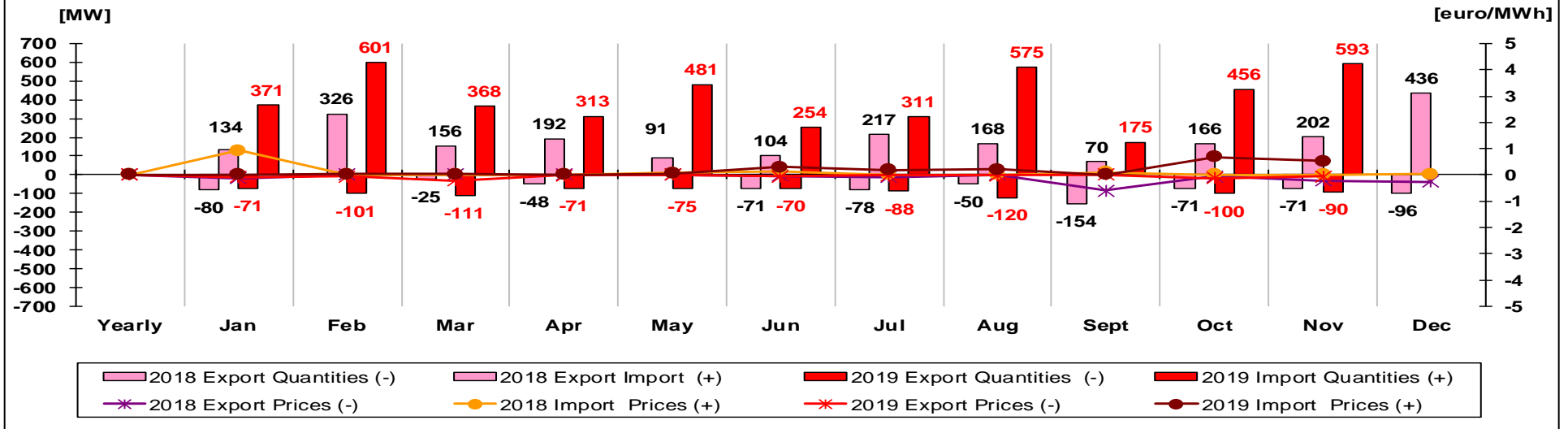
Market for Allocation of Cross-Border Capacities



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



Border	Yearly	Jan. 19	Feb.19	Mar.19	Apr.19	May 19	Jun. 19	Jul. 19	Aug. 19	Sept. 19	Oct. 19	Nov.19	Dec. 19
Ukraine export	-	0.08	0.07	0.22	0.01	0.00	0.07	0.02	0.01	-	0.13	0.07	
Ukraine import	-	0.00	0.04	0.02	0.00	0.06	0.29	0.18	0.21	0.01	0.68	0.53	

Border	Yearly	Jan. 18	Feb.18	Mar.18	Apr.18	May 18	Jun. 18	Jul. 18	Aug. 18	Sept. 18	Oct. 18	Nov.18	Dec. 18
Ukraine export	-	0.13	0.00	0.00	0.00	-	0.03	0.08	0.00	0.61	0.06	0.21	0.26
Ukraine import	-	0.92	0.01	0.00	0.00	0.07	0.15	0.01	0.01	0.10	0.00	0.001	0.03

- Compared with previous year, in November 2019 the auction price increased on import direction, while offered capacity and capacity request were higher. In November 2019, the auction price decreased on export direction, while offered capacity and capacity request were higher.

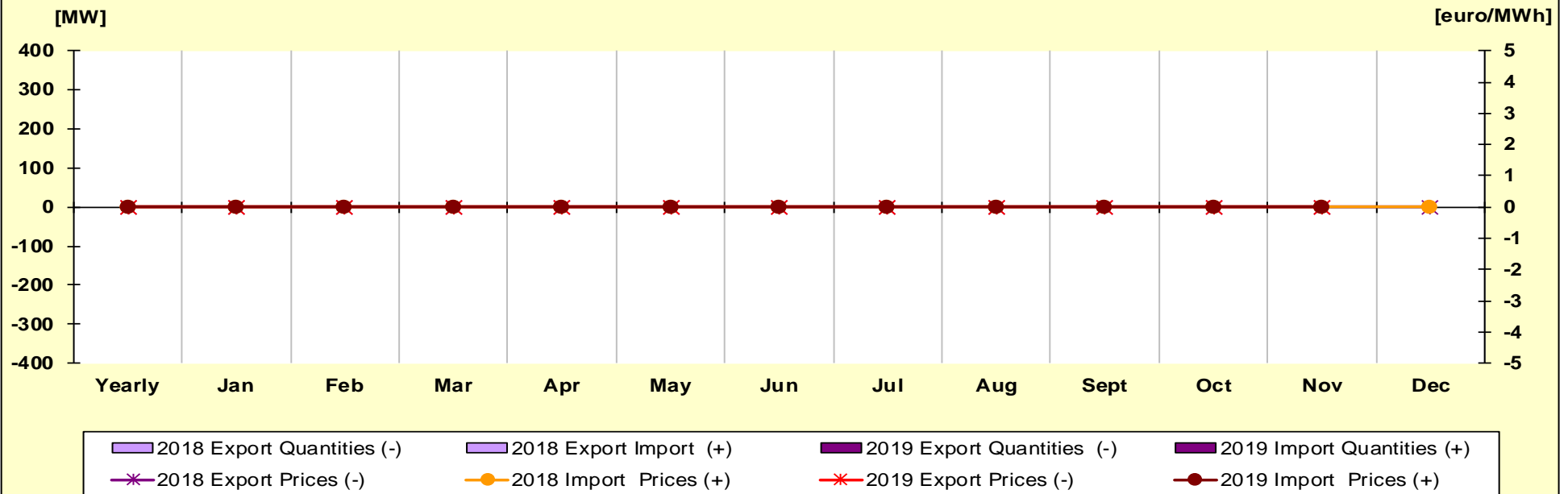
Market for Allocation of Cross-Border Capacities



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



Border	Yearly	Jan. 19	Feb.19	Mar.19	Apr.19	May 19	Jun. 19	Jul. 19	Aug. 19	Sept. 19	Oct. 19	Nov.19	Dec. 19
Moldavia export	-	-	-	-	-	-	-	-	-	-	-	-	-
Moldavia import	-	-	-	-	-	-	-	-	-	-	-	-	-

Border	Yearly	Jan. 18	Feb.18	Mar.18	Apr.18	May 18	Jun. 18	Jul. 18	Aug. 18	Sept. 18	Oct. 18	Nov.18	Dec. 18
Moldavia export	-	-	-	-	-	-	-	-	-	-	-	-	-
Moldavia import	-	-	-	-	-	-	-	-	-	-	-	-	-

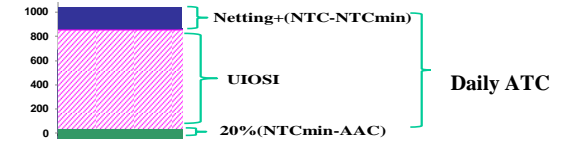


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Market for Allocation of Cross-Border Capacities

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
10	60	379	447



Hungary November 2019



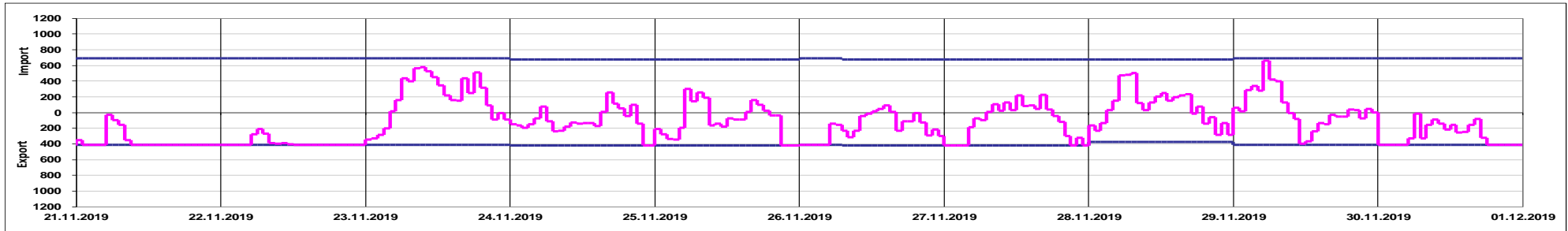
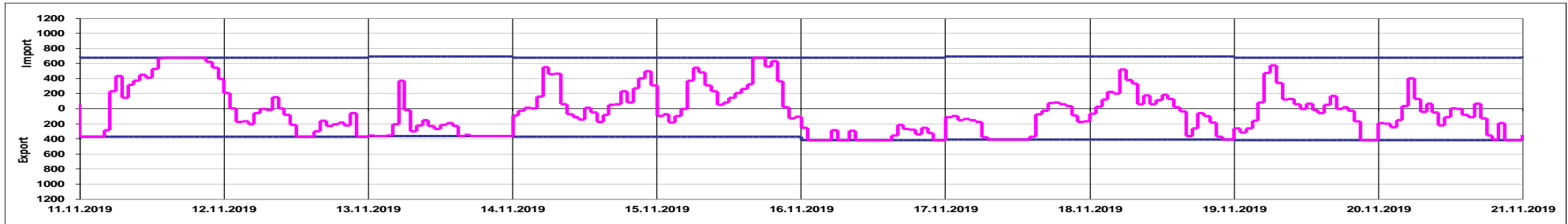
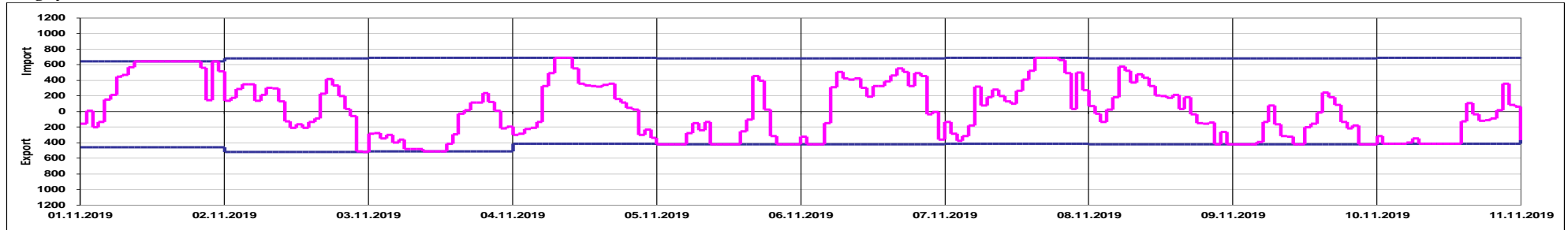


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Market for Allocation of Cross-Border Capacities

Daily implicit Auctions on Romanian – Hungarian border

Hungary November 2019



Offered Capacity on Daily Auction [MW]

Net Position Border RO – HU [MWh]

Public



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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	37.86	33.89	32.53	31.81	31.67	34.53	33.06	41.71	53.38	56.00	58.86	58.86	60.00	58.86	59.40	69.50	109.31	134.95	126.12	105.10	92.07	60.29	52.95	37.84	134.95
2	37.27	30.92	26.71	23.20	24.50	27.78	28.01	44.44	48.21	46.03	45.30	43.91	42.05	40.50	42.22	47.92	57.89	58.43	54.00	55.79	45.93	38.29	31.11	21.02	58.43
3	18.26	15.72	13.63	11.88	11.80	15.00	17.99	22.00	25.88	29.89	27.45	30.35	35.16	34.08	33.39	34.90	36.10	49.04	47.94	47.83	42.01	39.96	32.20	28.15	49.04
4	24.52	21.35	19.77	18.13	19.71	26.70	35.28	51.99	56.37	50.27	42.92	42.92	44.61	44.82	45.20	49.71	55.07	60.96	58.47	53.07	43.63	36.04	33.80	28.88	60.96
5	11.78	10.71	6.31	10.52	15.77	29.59	38.56	48.35	50.15	44.64	41.63	39.97	41.18	45.04	48.85	50.71	54.15	60.95	60.68	55.74	44.25	28.81	33.06	21.03	60.95
6	34.20	29.65	27.99	27.88	32.32	34.50	45.91	53.13	57.00	56.09	54.96	54.53	52.79	52.80	53.95	56.20	59.95	69.92	72.06	61.61	53.89	46.46	43.16	38.84	72.06
7	37.84	36.01	34.10	33.01	34.00	36.38	43.15	51.01	51.70	49.60	47.62	46.97	46.45	47.18	47.97	49.34	71.31	71.31	64.58	53.47	46.00	40.26	37.13	33.67	71.31
8	33.56	32.30	31.11	30.81	31.79	34.75	43.73	52.40	55.15	54.17	52.58	51.96	50.89	51.21	51.28	52.96	56.55	63.26	63.99	56.10	49.40	41.08	41.65	33.39	63.99
9	34.80	28.76	30.28	30.49	34.00	34.47	35.93	39.42	42.04	44.00	41.60	41.60	40.50	38.59	38.38	41.40	45.35	51.47	50.85	47.20	41.85	36.78	33.50	23.00	51.47
10	35.70	30.45	21.00	23.00	23.10	33.86	34.05	26.00	37.50	29.19	19.00	19.00	21.00	29.06	38.90	42.31	45.99	51.00	53.19	52.19	49.46	45.37	43.35	39.76	53.19
11	33.60	31.75	29.68	28.97	33.62	36.12	43.50	50.40	51.50	48.84	46.79	45.32	44.50	44.52	52.08	50.19	61.96	67.00	64.32	58.38	50.01	36.54	32.95	28.89	67.00
12	32.27	30.77	29.73	29.37	30.07	33.87	43.08	52.84	55.30	56.01	53.84	53.94	55.77	53.27	55.69	55.95	57.87	58.93	57.32	54.42	50.00	43.75	40.74	32.11	58.93
13	35.20	32.00	30.63	33.65	34.81	38.00	46.95	54.93	58.93	58.02	56.29	55.27	54.70	53.97	55.54	52.50	60.43	62.63	62.13	58.79	50.62	41.79	37.79	30.63	62.63
14	37.50	36.91	36.50	36.25	37.20	39.11	46.54	57.34	58.80	57.40	54.44	53.63	52.20	55.46	56.60	58.84	63.00	63.85	58.06	54.65	47.99	42.09	39.27	34.97	63.85
15	29.09	26.07	24.14	23.64	25.90	31.21	40.22	48.76	50.99	50.58	49.00	49.43	48.88	48.07	47.73	48.97	52.64	56.26	52.00	49.88	45.20	42.20	41.03	36.01	56.26
16	37.27	34.89	32.80	31.50	32.39	35.18	36.90	39.09	40.62	41.87	40.46	39.86	38.09	35.24	35.24	38.08	43.09	48.31	47.36	44.76	37.34	35.91	32.50	28.04	48.31
17	29.97	28.46	28.00	27.13	28.06	28.01	27.81	27.30	27.27	25.00	25.33	26.00	31.01	31.11	37.46	39.00	43.99	52.53	54.16	49.78	52.45	38.99	34.85	28.93	54.16
18	29.57	28.00	25.94	25.74	28.84	34.77	45.55	57.70	57.55	57.77	54.61	54.69	55.20	55.85	57.35	57.35	70.98	73.93	63.28	62.31	55.42	43.44	39.23	35.24	73.93
19	27.52	26.01	24.72	23.01	26.64	35.71	40.44	53.88	55.10	52.45	50.18	51.32	51.43	52.88	53.46	56.43	62.77	73.20	68.16	60.21	54.50	46.99	44.46	39.86	73.20
20	41.51	40.70	39.15	39.40	40.28	44.00	52.75	64.31	69.57	66.84	65.60	64.14	61.17	62.08	62.62	63.16	69.76	75.87	74.20	66.14	54.63	45.88	41.90	35.20	75.87
21	36.92	29.10	20.94	20.94	29.96	38.49	47.64	57.57	62.11	59.67	51.93	47.95	47.95	45.00	43.76	44.33	56.12	57.60	50.04	43.76	33.50	10.47	10.47	0.21	62.11
22	10.47	10.47	10.47	13.81	20.93	36.30	41.23	51.90	52.56	51.16	49.94	47.93	46.82	46.01	44.60	45.00	46.04	48.60	45.00	41.23	35.79	29.40	29.09	13.81	52.56
23	29.11	25.64	24.50	23.49	23.47	24.26	27.11	33.10	35.14	35.94	35.57	35.14	33.50	32.07	31.78	34.75	40.31	48.42	40.08	38.99	36.94	31.99	30.01	25.07	48.42
24	23.71	22.00	22.07	22.30	22.30	22.96	24.72	27.16	32.03	34.16	35.50	37.00	36.57	36.11	37.78	39.75	47.01	49.02	51.34	50.92	45.62	41.17	37.29	29.33	51.34
25	34.80	33.63	32.50	31.51	32.85	37.00	45.09	56.00	58.15	57.18	56.92	56.02	55.60	55.57	56.00	57.70	62.00	64.49	60.23	57.25	51.15	39.18	32.48	16.97	64.49
26	37.00	29.32	25.88	27.01	31.01	38.57	46.54	55.80	56.70	54.60	53.70	53.01	52.53	52.72	52.59	54.09	63.63	68.59	63.12	59.50	54.72	46.30	43.10	37.06	68.59
27	27.26	30.40	29.70	28.50	32.28	35.22	46.00	50.38	52.44	51.45	49.07	48.05	47.24	47.99	49.78	50.79	59.51	63.92	58.37	53.31	47.00	39.19	35.27	24.11	63.92
28	25.92	22.96	16.98	15.70	22.00	32.92	42.77	50.41	53.26	52.91	51.56	50.53	50.04	50.00	49.93	51.91	60.04	60.98	55.14	54.34	45.53	39.49	36.88	30.09	60.98
29	26.42	23.28	18.68	18.85	24.06	32.10	42.92	49.63	50.34	49.30	49.11	48.47	47.89	47.92	47.29	49.79	52.90	56.14	54.01	52.47	49.58	45.01	41.53	37.32	56.14
30	31.93	30.00	29.40	28.18	28.30	36.12	37.20	40.92	43.70	45.70	44.50	44.22	43.02	42.76	42.97	45.05	51.90	55.04	51.90	45.83	37.25	12.56	0.21	0.21	55.04

Average 42.71 EUR/MWh



Transelectrica®
Societate Administrată în Sistem Dualist

Market for Allocation of Cross-Border Capacities

Daily implicit Auctions on Romanian – Hungarian border

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	-	-	-	-	-	-	-	-	-	-	6.67	3.10	2.41	8.83	8.61	15.66	42.59	55.04	55.42	25.20	-	-	-	5.49	-	55.42
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.97	6.97
3	-	-	-	-	-	-	-	-	-	0.81	4.93	4.73	0.15	-	-	-	-	-	-	-	-	-	-	-	-	4.93
4	-	-	-	-	-	-	-	6.90	8.32	2.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.32
5	18.11	18.22	20.64	15.47	11.20	-	-	-	-	4.70	5.73	7.31	6.22	2.90	-	-	-	-	-	-	-	4.25	13.13	4.94	12.31	20.64
6	-	3.08	3.87	3.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.87
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.16	7.41	2.91	-	-	-	-	-	-	18.16
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.88	-	3.12	3.12
9	4.00	7.41	4.27	3.52	-	-	-	-	-	-	1.90	0.90	-	-	-	-	-	-	-	-	-	-	1.84	4.55	11.93	11.93
10	-	3.55	12.70	9.73	9.88	-	-	10.41	-	10.01	20.44	20.50	17.45	8.54	-	-	-	-	-	-	-	-	-	-	-	20.50
11	1.93	2.65	3.63	3.42	-	-	-	-	-	-	-	-	-	-	6.17	3.30	5.04	3.31	5.73	6.26	7.54	-	-	-	-	7.54
12	-	-	-	-	-	-	-	-	-	-	-	0.25	0.73	0.31	-	-	-	-	-	-	-	-	-	0.07	4.58	4.58
13	-	2.80	4.16	-	-	-	-	-	-	-	-	-	-	-	-	3.95	-	2.47	1.37	0.82	2.41	7.18	6.11	10.24	10.24	
14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.70	1.67	-	-	-	-	-	-	-	1.67
16	-	0.87	2.59	2.51	2.12	-	-	0.50	-	0.68	2.32	2.14	0.12	0.77	0.70	-	-	-	-	-	-	-	-	3.29	4.51	4.51
17	-	-	-	-	-	-	-	3.50	7.09	12.75	14.47	15.02	9.94	7.20	-	-	-	-	-	-	-	-	-	-	-	15.02
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.64	0.01	0.64
19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.71	3.41	2.48	3.71
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.13	0.07	3.25	3.25
21	-	7.00	14.04	14.02	5.70	-	-	-	-	0.44	6.26	10.32	9.82	12.01	12.65	13.67	3.23	5.50	7.96	10.20	13.75	31.63	29.40	36.56	36.56	
22	24.53	23.73	23.53	19.97	13.20	-	-	-	-	-	-	-	0.68	2.06	3.41	4.32	6.86	5.51	4.43	4.89	5.31	9.50	7.15	18.54	24.53	
23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.53	7.86	7.86
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.92	9.47	20.58	20.58
26	2.14	8.01	11	8.76	5.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.80
27	7.62	3.15	2.78	2.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.72	-	7.62
28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
30	5.67	6.28	6.07	6.41	6.42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10	6.79	10.74	30.44	41.72	38.80	41.72

Average 8.45 EUR/MWh



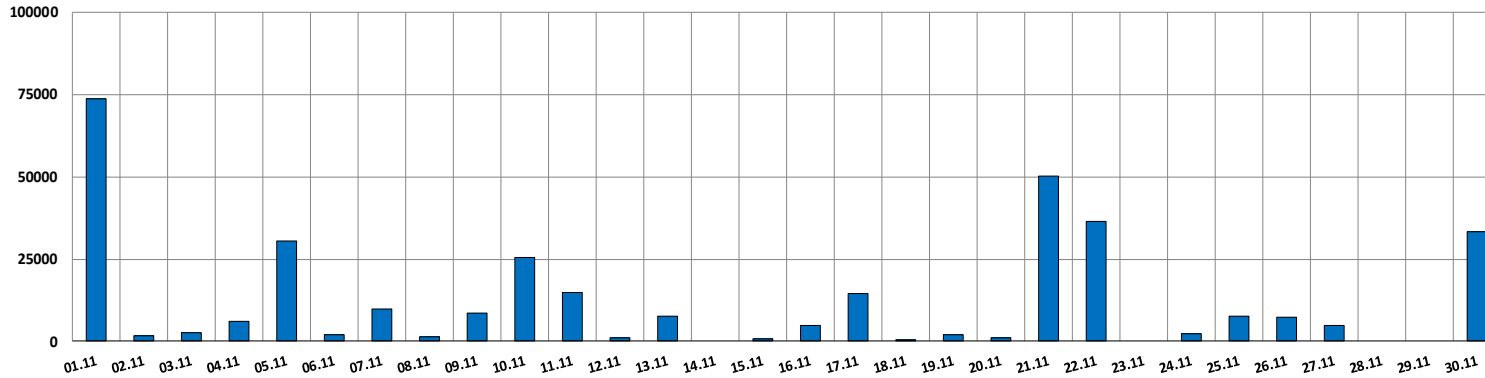
Transelectrica®

Societate Administrată în Sistem Dualist

Market for Allocation of Cross-Border Capacities

Daily implicit Auctions on Romanian – Hungarian border

Congestion Income RO



Day	Congestion Income border RO-HU [Euro]	Congestion Income RO [Euro]
01.11	147260	73630
02.11	3638	1819
03.11	5437	2719
04.11	11999	5999
05.11	61245	30622
06.11	4220	2110
07.11	19594	9797
08.11	2532	1266
09.11	17015	8508
10.11	50763	25381
11.11	29650	14825
12.11	2210	1105
13.11	15027	7513
14.11	0	0
15.11	1607	803
16.11	9757	4878
17.11	28828	14414
18.11	268	134
19.11	4051	2026
20.11	2300	1150
21.11	100594	50297
22.11	73179	36590
23.11	0	0
24.11	4807	2403
25.11	15179	7590
26.11	14333	7167
27.11	9398	4699
28.11	0	0
29.11	0	0
30.11	66513	33257
Total	701403	350702

Daily Income [Euro]		Remuneration UIOSI [Euro]	
RO-HU	HU-RO	RO-HU	HU-RO
495620	205783	454305	142974
701403		597279	

TSO Income (Z-R) [Euro]	RO TSO Income (Z-R) [Euro]
104124	52062

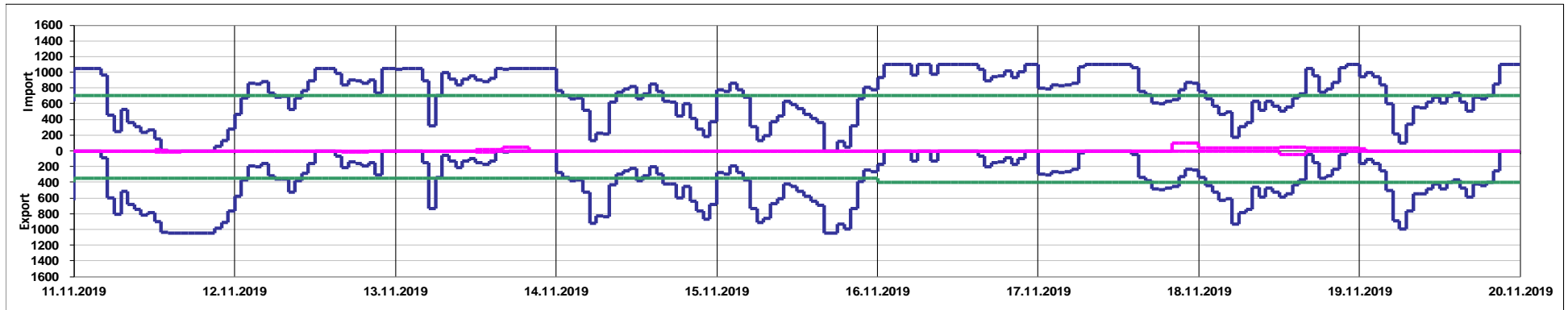
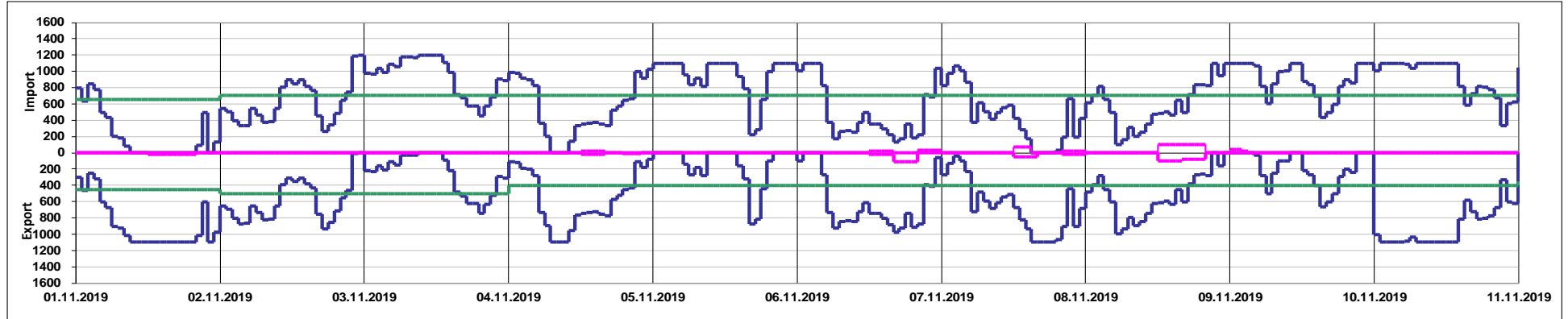


Transelectrica®
Societate Administrată în Sistem Dualist

Market for Allocation of Cross-Border Capacities

Explicit Intraday Auctions on Romanian – Hungarian border (01.11.2019 – 19.11.2019)

Hungary November 2019



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

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

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

Note: Starting with 20.11.2019, implicit intraday allocation with continuous trading is organized on the Hungarian border, due to the integration of Romanian intraday market in SIDC (Single Intra-Day Market).



Transelectrica®
Societate Administrată în Sistem Dualist

Market for Allocation of Cross-Border Capacities

Explicit Intraday Auctions on Romanian – Hungarian border (01.11.2019 – 19.11.2019)

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
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
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
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
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
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
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
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
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
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
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Hungary

November 2019

Note: Starting with 20.11.2019, implicit intraday allocation with continuous trading is organized on the Hungarian border, due to the integration of Romanian intraday market in SIDC (Single Intra-Day Market).



Transelectrica®
Societate Administrată în Sistem Dualist

Market for Allocation of Cross-Border Capacities

Explicit Intraday Auctions on Romanian – Hungarian border (01.11.2019 – 19.11.2019)

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	
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
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
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
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
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
21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00

Hungary November 2019

Note: Starting with 20.11.2019, implicit intraday allocation with continuous trading is organized on the Hungarian border, due to the integration of Romanian intraday market in SIDC (Single Intra-Day Market).

Market for Allocation of Cross-Border Capacities

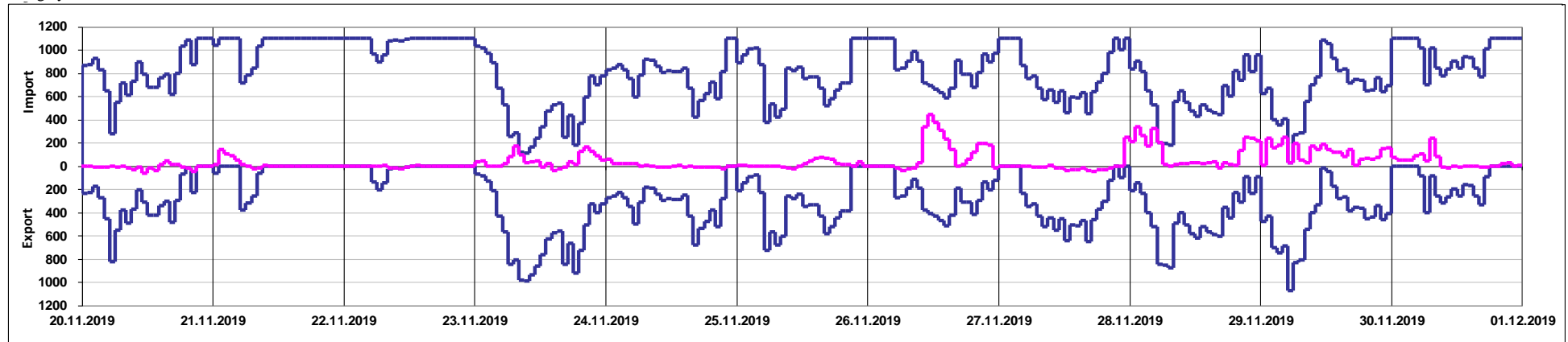


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Societate Administrată în Sistem Dualist

Implicit Intraday Auctions on Romanian – Hungarian border (20.11.2019 – 30.11.2019)

Hungary November 2019



Offered Capacity on Intraday Auction [MW]

Net Position border RO - HU [MWh]

Note: Starting with 20.11.2019, implicit intraday allocation with continuous trading is organized on the Hungarian border, due to the integration of Romanian intraday market in SIDC (Single Intra-Day Market).

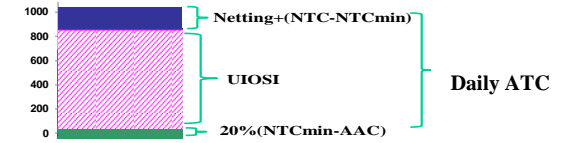


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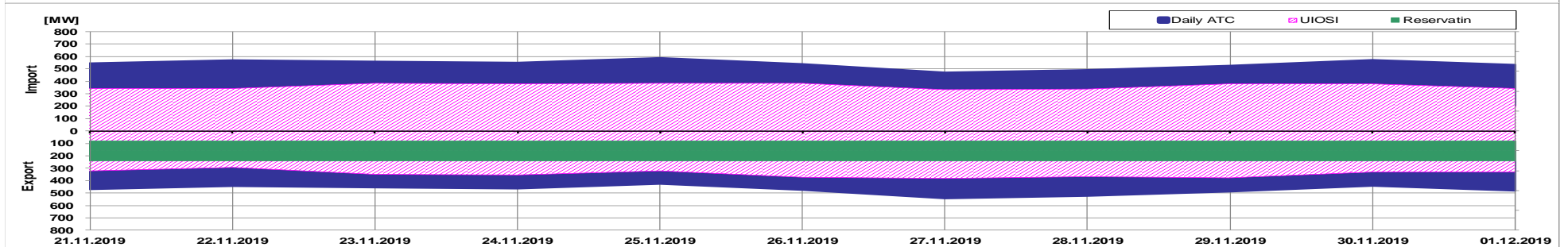
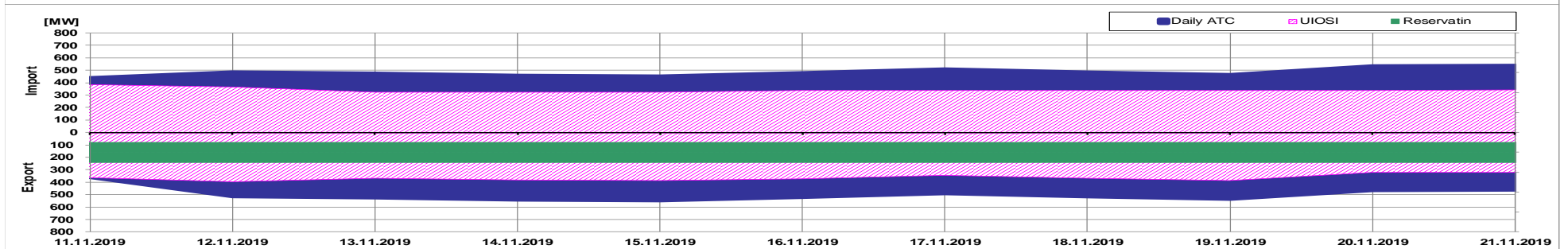
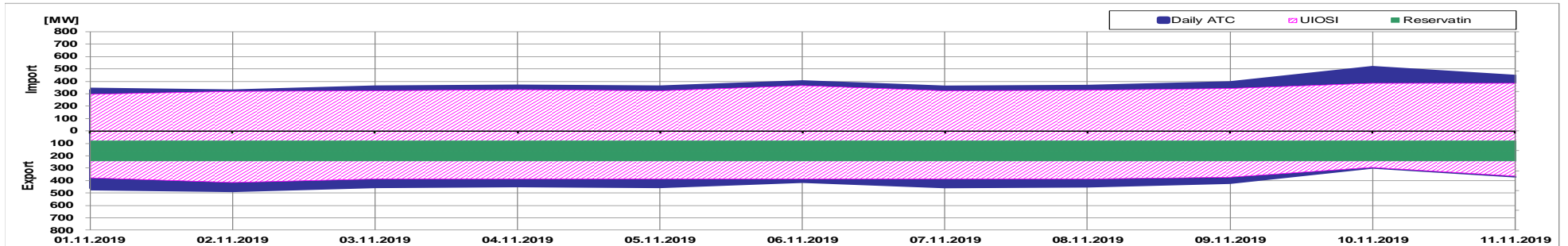
Market for Allocation of Cross-Border Capacities

Daily Auctions on Romanian – Bulgarian border

Reserved Capacity [MW] average value		Unused Capacity [MW] average value	
RO-BG	BG-RO	RO-BG	BG-RO
51	50	307	283



Bulgaria November 2019



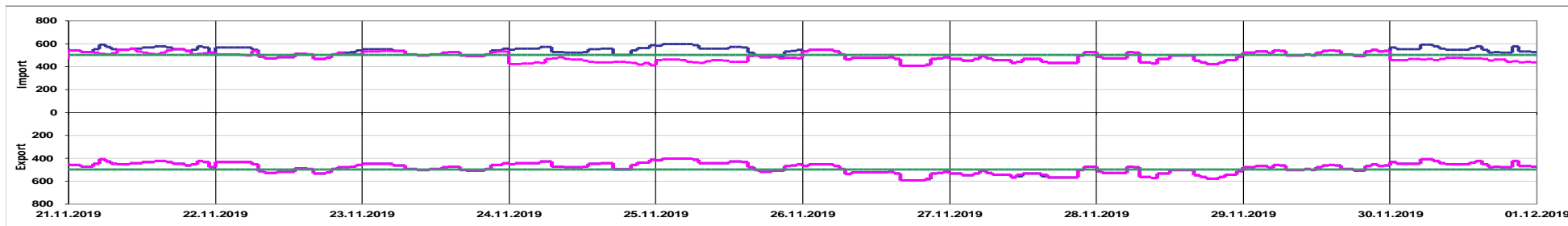
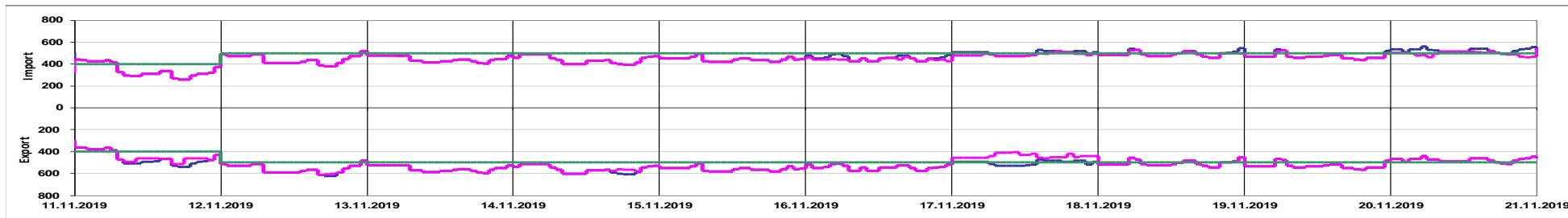
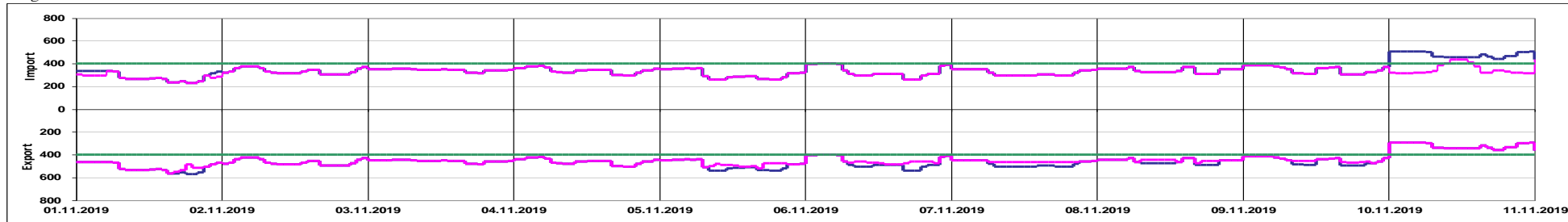


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Societate Administrată în Sistem Dualist

Market for Allocation of Cross-Border Capacities

Daily Auctions on Romanian – Bulgarian border

Bulgaria November 2019



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



Transelectrica®
Societate Administrată în Sistem Dualist

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	0.22	0.25	0.25	0.25	0.33	0.25	0.02	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.15	0.33	0.33
2	0.24	0.28	0.28	0.31	0.31	0.56	0.17	0.15	0.14	0.14	0.15	0.14	0.14	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.14	0.15	0.28	0.28	0.56
3	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.56	0.56	0.49	0.56	0.87	0.87	0.87	0.87	0.87	0.14	0.14	0.14	0.55	0.55	0.55	0.56	0.88	0.88
4	0.27	0.21	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.35	0.35	0.35	0.30	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.35
5	0.07	0.07	0.07	0.07	0.07	0.15	0.15	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	0.01	0.01	0.01	0.15
6	0.08	0.08	0.08	0.08	0.08	0.08	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	0.04	0.05	0.08
7	0.03	0.03	0.03	0.03	0.03	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	0.01	0.01	0.03	0.03
8	0.05	0.05	0.05	0.05	0.05	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.03	0.00	0.00	0.00	0.00	0.01	0.03	0.05	0.03	0.05
9	0.45	0.28	0.45	0.39	0.45	0.21	0.09	0.05	0.00	0.00	0.00	0.00	0.03	0.05	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.03	0.05	0.05	0.45
10	11.00	11.00	8.00	7.00	7.00	7.00	6.06	6.00	7.78	6.00	1.00	6.00	6.00	6.00	4.00	3.00	0.45	0.72	0.24	0.32	0.50	6.00	6.00	6.00	11.00
11	1.00	1.20	1.20	1.20	1.20	1.19	0.12	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.12	1.20
12	0.05	0.05	0.05	0.05	0.05	0.05	0.03	0.02	0.02	0.02	0.02	0.05	0.05	0.05	0.02	0.02	0.01	0.00	0.00	0.01	0.05	0.05	0.51	2.00	2.00
13	1.00	1.00	1.00	0.98	0.98	0.55	0.22	0.05	0.05	0.05	0.22	0.22	0.22	0.22	0.22	0.05	0.05	0.01	0.01	0.01	0.05	0.05	0.22	0.22	1.00
14	0.11	0.11	0.11	0.11	0.11	0.11	0.05	0.01	0.01	0.01	0.01	0.01	0.05	0.05	0.05	0.05	0.05	0.00	0.00	0.00	0.00	0.05	0.05	0.05	0.11
15	0.11	0.11	0.11	0.11	0.11	0.12	0.11	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.12
16	0.12	0.01	0.01	0.01	0.22	0.22	0.11	0.01	0.01	0.01	0.01	0.01	0.05	0.03	0.05	0.05	0.05	0.01	0.01	0.01	0.09	0.05	0.05	0.09	0.22
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	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.02	0.01	0.01	0.01	0.01	0.06	0.06	0.08	0.08	0.08
19	0.08	0.12	0.12	0.12	0.12	0.32	0.13	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.08	0.08	0.32	0.32
20	0.22	0.32	0.18	0.32	0.32	0.32	0.18	0.09	0.09	0.09	0.09	0.09	0.09	0.18	0.12	0.18	0.09	0.05	0.05	0.03	0.18	1.00	1.05	2.00	2.00
21	2.00	2.18	3.00	3.00	4.18	2.68	2.41	0.96	2.20	2.20	2.75	2.20	2.20	2.20	2.20	2.00	0.27	0.27	0.25	0.25	0.55	4.10	5.49	4.00	5.49
22	7.03	9.42	7.50	7.65	4.82	3.84	1.80	0.38	0.65	0.65	0.66	0.66	1.12	1.12	1.12	0.66	0.10	0.05	0.30	0.43	0.84	0.84	1.23	1.23	9.42
23	0.77	0.78	1.12	1.12	0.78	0.58	0.31	0.22	0.22	0.22	0.22	0.33	0.33	0.42	0.42	0.42	0.33	0.31	0.22	0.21	0.22	0.44	0.62	0.66	1.12
24	0.01	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.10	0.01	0.05	0.05	0.00	0.00	0.00	0.01	0.05	0.05	0.22	0.22
25	0.52	0.52	0.52	0.52	0.52	0.44	0.26	0.26	0.26	0.20	0.20	0.20	0.26	0.44	0.44	0.44	0.20	0.13	0.13	0.13	0.20	0.44	0.20	0.20	0.52
26	0.88	0.88	0.88	1.02	0.88	0.56	0.15	0.05	0.13	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.02	0.02	0.02	0.02	0.00	0.01	0.01	0.05	1.02
27	0.02	0.02	0.01	0.02	0.02	0.05	0.02	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.05	0.05	0.05
28	0.08	0.05	0.05	0.05	0.05	0.22	0.08	0.01	0.01	0.01	0.01	0.04	0.04	0.04	0.04	0.04	0.04	0.01	0.01	0.01	0.01	0.08	0.05	0.05	0.08
29	0.44	0.44	0.56	0.56	0.44	0.44	0.44	0.29	0.25	0.44	0.44	0.44	0.85	0.85	0.85	0.85	0.44	0.88	0.85	0.46	0.88	1.12	1.12	1.32	1.32
30	0.05	0.05	0.05	0.04	0.04	0.05	0.05	0.05	0.01	0.04	0.04	0.04	0.04	0.04	0.05	0.04	0.01	0.01	0.04	0.05	1.34	1.34	1.34	1.34	1.34

Bulgaria

November 2019

Market for Allocation of Cross-Border Capacities

Daily Auctions on Romanian – Bulgarian border



Transelectrica®
Societate Administrată în Sistem Dualist

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	0.01	0.01	0.66	0.75	0.66	0.66	0.66	0.53	0.44	0.66	1.00	6.00	6.00	7.00	5.56	0.52	0.33	0.00	0.00	7.00
2	0.15	0.15	0.15	0.15	0.15	0.22	0.24	0.28	0.36	0.31	0.31	0.36	0.31	0.31	0.24	0.24	0.66	0.88	0.66	0.56	0.36	0.24	0.15	0.15	0.88
3	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.19	0.24	0.24	0.24	0.31	0.24	0.24	0.19	0.15	0.24	0.24	0.24	0.15	0.15	0.13	0.13	0.08	0.31
4	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.19	0.21	0.21	0.21	0.19	0.15	0.15	0.15	0.11	0.24	0.24	0.24	0.24	0.21	0.05	0.05	0.05	0.24
5	0.07	0.07	0.07	0.07	0.05	0.05	0.05	0.24	0.57	0.88	0.51	0.51	0.38	0.37	0.31	0.31	0.77	0.77	0.88	0.57	0.37	0.24	0.24	0.24	0.88
6	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.08	0.31	0.31	0.57	0.57	0.31	0.31	0.18	0.22	0.36	0.36	0.36	0.22	0.21	0.15	0.05	0.05	0.57
7	0.20	0.20	0.33	0.33	0.20	0.13	0.16	0.35	0.76	0.76	0.76	0.88	0.76	0.38	0.27	0.27	0.62	0.76	0.76	0.76	0.38	0.13	0.13	0.13	0.88
8	0.06	0.06	0.08	0.08	0.06	0.05	0.08	0.08	0.13	0.22	0.27	0.45	0.22	0.13	0.05	0.05	0.69	1.11	1.00	0.52	0.08	0.08	0.06	0.05	1.11
9	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.08	0.31	0.34	0.44	0.44	0.23	0.11	0.08	0.05	0.11	0.34	0.34	0.31	0.11	0.08	0.08	0.05	0.44
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	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.05	0.21	0.21	0.21	0.21	0.21	0.11	0.05	0.05	0.49	1.51	1.51	0.19	0.11	0.08	0.05	0.03	1.51
12	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.05	0.05	0.07	0.05	0.05	0.01	0.01	0.05	0.08	0.08	0.07	0.01	0.01	0.01	0.01	0.08
13	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.05	0.05	0.01	0.01	0.01	0.01	0.05
14	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.22	0.06	0.06	0.05	0.01	0.01	0.01	0.22
15	0.01	0.05	0.05	0.05	0.05	0.01	0.01	0.01	0.05	0.05	0.06	0.06	0.05	0.01	0.01	0.01	0.06	0.54	0.56	0.55	0.05	0.01	0.05	0.01	0.56
16	0.00	0.00	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	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01
17	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.05	0.05	0.05	0.02	0.02	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.01	0.00	0.05
18	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.04	0.04	0.04	0.04	0.01	0.01	0.01	0.00	0.03	0.04	0.05	0.07	0.00	0.00	0.00	0.00	0.07
19	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.05	0.05	0.05	0.05	0.05	0.01	0.01	0.01	0.01	0.05	0.05	0.05	0.05	0.01	0.01	0.01	0.00	0.05
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01
21	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.01
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.03	0.03	0.01	0.01	0.00	0.00	0.00	0.03
23	0.00	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	0.00	0.00	0.00	0.01
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	0.01	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.03
26	0.02	0.01	0.01	0.01	0.01	0.03	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.10	0.13	0.08	0.05	0.05	0.05	0.05	0.13
27	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.05	0.05	0.05	0.05	0.03	0.01	0.01	0.05	0.06	0.06	0.15	0.06	0.05	0.01	0.01	0.01	0.15
28	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.04	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.03	0.05	0.08	0.05	0.04	0.02	0.02	0.01	0.08
29	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.03	0.03	0.03	0.03	0.01	0.01	0.01	0.03	0.03	0.03	0.03	0.01	0.01	0.01	0.01	0.03
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

Bulgaria

November 2019

Market for Allocation of Cross-Border Capacities

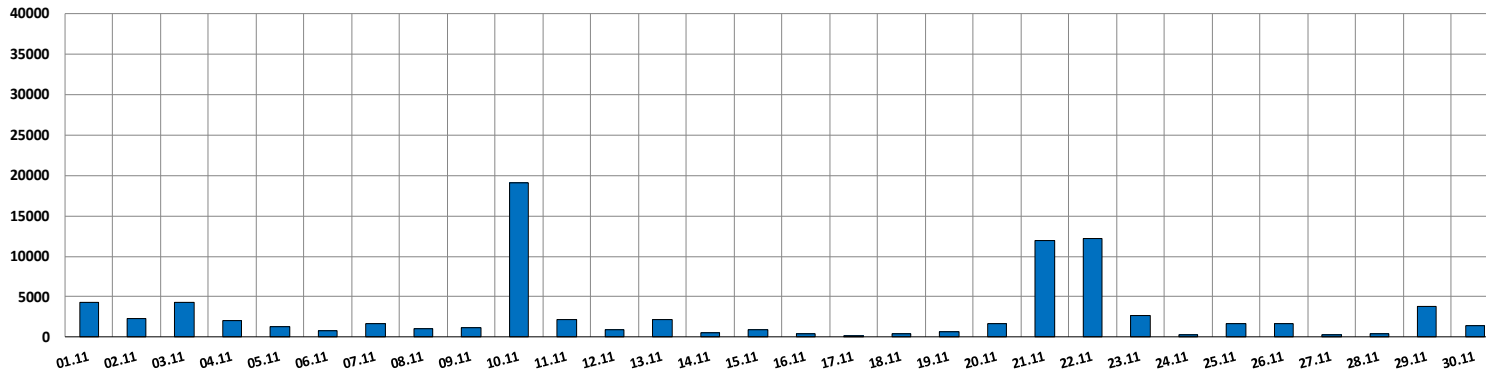
Daily Allocation on Romanian – Bulgarian border



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Societate Administrată în Sistem Dualist

Congestion Income RO



Day	Congestion Income border RO-BG [Euro]	Congestion Income RO [Euro]
01.11	8658	4329
02.11	4695	2348
03.11	8624	4312
04.11	4139	2070
05.11	2708	1354
06.11	1651	826
07.11	3305	1652
08.11	2051	1025
09.11	2374	1187
10.11	38235	19117
11.11	4236	2118
12.11	1937	969
13.11	4242	2121
14.11	1014	507
15.11	1918	959
16.11	729	364
17.11	129	65
18.11	791	395
19.11	1397	698
20.11	3421	1711
21.11	23997	11999
22.11	24509	12254
23.11	5337	2668
24.11	513	256
25.11	3365	1682
26.11	3293	1647
27.11	593	296
28.11	925	463
29.11	7694	3847
30.11	2809	1405
Total	169290	84645

Daily Income [Euro]		Remuneration UIOSI [Euro]	
RO-BG	BG-RO	RO-BG	BG-RO
140893	28396	89277	22129
169290		111407	

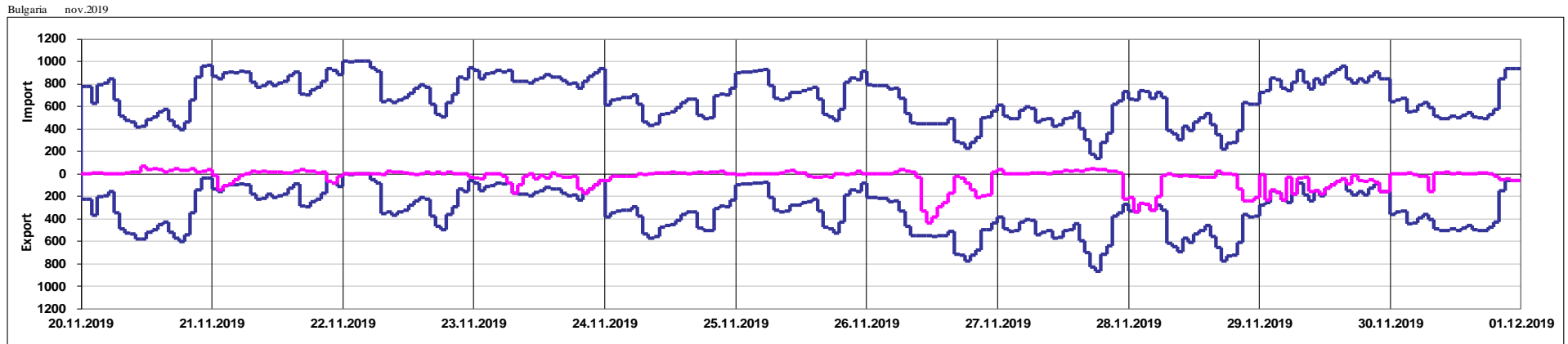
TSO Income (Z-R) [Euro]	RO TSO Income (Z-R) [Euro]
57883	28942



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Market for Allocation of Cross-Border Capacities

Implicit Intraday Auctions on Romanian – Bulgarian border (20.11.2019 – 30.11.2019)



Offered Capacity on Intraday Auction [MW]

Net Position border RO - BG [MWh]

Note: Starting with 20.11.2019, implicit intraday allocation with continuous trading is organized on the Bulgarian border, due to the integration of Romanian intraday market in SIDC (Single Intra-Day Market).

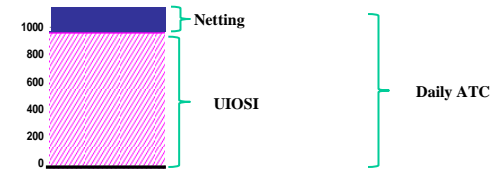


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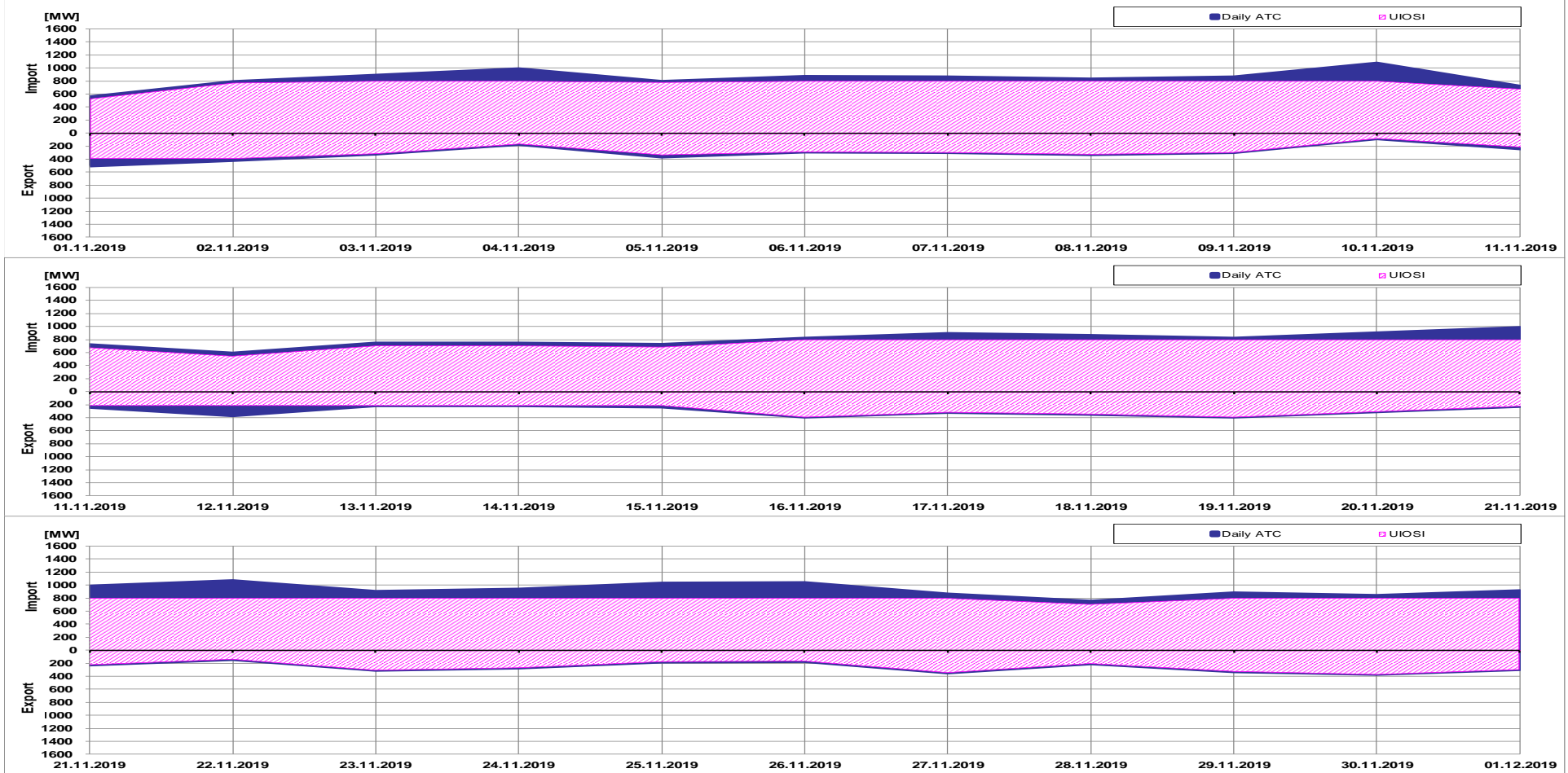
Market for Allocation of Cross-Border Capacities

Daily Auctions on Romanian – Serbian border

Unused Capacity [MW] average value	
RO-RS	RS-RO
287	738



Serbia November 2019

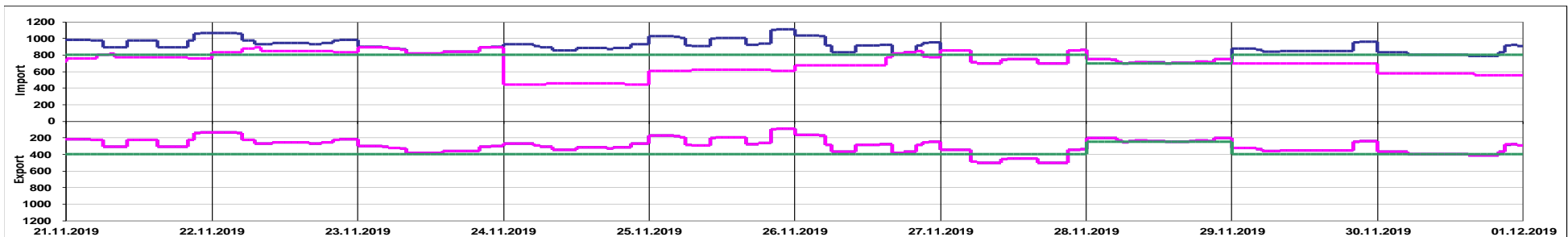
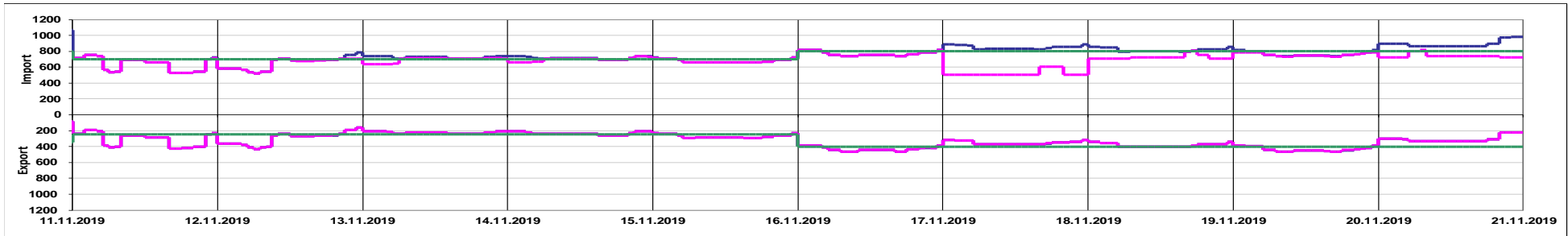
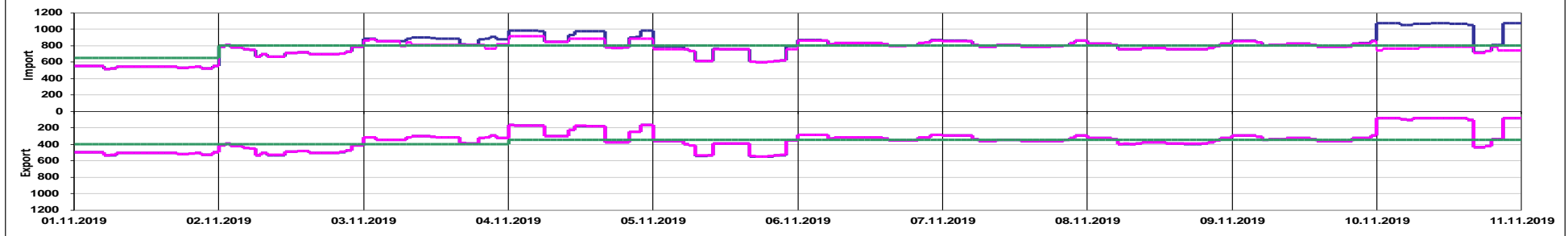




Market for Allocation of Cross-Border Capacities

Daily Auctions on Romanian – Serbian border

Serbia November 2019



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



Transelectrica®
Societate Administrată în Sistem Dualist

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	0.09	0.09	0.09	0.09	0.09	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.03	0.06	0.09	
2	0.43	0.45	0.43	0.43	0.38	0.31	0.06	0.06	0.06	0.06	0.06	0.08	0.08	0.08	0.08	0.06	0.06	0.06	0.06	0.06	0.06	0.08	0.35	0.31	0.45	
3	0.38	0.44	0.30	0.30	0.30	0.44	0.64	0.66	0.88	0.68	0.88	1.00	1.00	1.00	1.00	0.92	0.15	0.15	0.18	0.30	0.30	0.66	0.66	1.00	1.00	
4	0.66	0.66	0.66	0.66	0.66	0.66	0.30	0.30	0.64	0.64	1.48	1.50	1.50	2.42	2.42	2.42	0.30	0.09	0.09	0.09	0.64	1.50	1.78	2.77	2.77	
5	0.19	0.19	0.19	0.19	0.19	0.15	0.09	0.03	0.03	0.03	0.05	0.09	0.09	0.09	0.09	0.09	0.03	0.03	0.03	0.03	0.03	0.03	0.10	0.10	0.19	
6	0.51	0.51	0.51	0.51	0.51	0.45	0.18	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.09	0.09	0.10	0.10	0.10	0.10	0.11	0.13	0.18	0.18	0.51	
7	0.97	0.97	0.97	0.97	0.88	0.26	0.12	0.06	0.06	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.12	0.20	0.20	0.97	
8	0.36	0.36	0.36	0.36	0.32	0.10	0.09	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.11	0.20	0.41	0.44	0.44	
9	0.66	0.66	0.66	0.66	0.66	0.29	0.26	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.08	0.08	0.09	0.09	0.09	0.09	0.12	0.50	0.72	0.76	0.76	
10	9.00	9.00	9.00	7.67	7.03	6.56	7.00	8.00	5.96	7.50	7.56	8.36	7.56	5.67	5.67	2.02	0.14	0.15	0.14	0.50	0.69	5.00	6.29	8.68	9.00	
11	1.35	1.55	2.56	2.56	2.55	0.12	0.04	0.03	0.07	0.07	0.09	0.09	0.07	0.07	0.07	0.07	0.02	0.02	0.03	0.03	0.03	0.03	0.07	0.09	2.56	
12	0.15	0.15	0.15	0.15	0.12	0.08	0.05	0.06	0.06	0.25	0.28	0.28	0.34	0.34	0.34	0.34	0.15	0.15	0.15	0.22	0.27	1.50	3.00	3.50	3.50	
13	6.12	7.56	6.00	5.19	4.60	1.00	0.95	0.54	0.54	0.76	1.00	1.20	1.00	0.67	0.56	0.53	0.34	0.32	0.32	0.32	0.50	0.66	3.00	3.00	7.56	
14	1.26	1.56	1.15	1.15	1.15	0.49	0.34	0.36	0.38	0.43	0.42	0.44	0.39	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.44	0.51	0.51	1.56	
15	0.12	0.12	0.12	0.12	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.12	0.12	
16	0.06	0.06	0.06	0.06	0.06	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.06	0.06	0.08	0.08	
17	0.08	0.08	0.08	0.08	0.08	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.08	0.08
18	0.36	0.34	0.34	0.22	0.16	0.12	0.10	0.10	0.10	0.12	0.12	0.12	0.12	0.12	0.10	0.08	0.06	0.06	0.09	0.09	0.09	0.09	0.09	0.10	0.36	
19	0.10	0.10	0.09	0.09	0.09	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.07	0.10	
20	0.46	0.46	0.46	0.46	0.43	0.33	0.55	0.82	0.92	0.92	1.12	1.12	1.12	1.12	1.12	1.12	1.00	2.18	3.12	2.64	3.26	5.00	5.00	5.00	5.00	
21	3.00	8.00	10.80	11.90	8.50	4.28	3.12	1.61	3.12	5.50	5.56	6.00	6.00	6.00	5.54	5.21	2.00	1.16	1.16	1.61	1.61	3.52	15.00	19.02	20.65	20.65
22	16.93	15.94	15.05	15.40	11.02	4.22	2.00	1.13	1.12	1.12	1.12	1.12	0.76	0.76	0.76	0.76	0.36	0.54	0.54	0.54	0.63	0.63	0.76	1.21	16.93	
23	2.00	3.00	3.00	3.00	2.17	1.00	0.44	0.36	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.25	0.25	0.25	0.25	0.31	0.31	0.77	0.77	3.00	
24	0.18	0.18	0.18	0.18	0.18	0.11	0.09	0.09	0.07	0.07	0.07	0.07	0.09	0.09	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.44	0.56	0.56	0.56	
25	2.06	4.45	2.80	2.80	2.80	1.56	0.37	0.37	0.37	0.37	1.03	1.37	1.37	1.37	1.37	0.96	0.54	0.54	0.72	1.40	3.77	4.46	7.56	12.56	12.56	
26	2.50	2.50	2.50	2.50	2.50	0.45	0.33	0.33	0.33	0.33	0.45	0.45	0.45	0.45	0.45	0.35	0.13	0.13	0.13	0.13	0.27	0.33	0.34	0.34	2.50	
27	0.31	0.31	0.31	0.31	0.17	0.06	0.06	0.06	0.06	0.06	0.09	0.09	0.09	0.09	0.09	0.09	0.06	0.06	0.06	0.06	0.06	0.17	0.25	0.25	0.31	
28	0.43	0.43	0.43	0.43	0.43	0.31	0.30	0.22	0.25	0.25	0.25	0.25	0.25	0.22	0.22	0.22	0.22	0.22	0.25	0.25	0.25	0.35	0.56	0.62	0.62	
29	0.41	0.41	0.41	0.41	0.33	0.33	0.33	0.33	0.34	0.84	0.84	1.00	1.00	1.00	1.00	1.00	0.84	0.84	0.84	0.85	3.51	5.00	5.00	5.00	5.00	
30	0.09	0.09	0.09	0.07	0.07	0.05	0.03	0.03	0.03	0.03	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.09	0.09	1.26	7.00	9.00	9.00	9.00	

Serbia November 2019



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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	0.14	0.14	0.14	0.14	0.14	0.48	0.52	1.40	1.40	0.66	1.24	0.66	0.66	0.44	0.44	0.84	2.94	4.00	3.71	2.72	0.88	0.44	0.33	0.26	4.00	
2	0.14	0.10	0.10	0.10	0.10	0.15	0.15	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.10	0.10	0.37	0.10	0.10	0.09	0.07	0.07	0.07	0.37	
3	0.00	0.00	0.02	0.02	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	0.00	0.00	0.00	0.00	0.02	
4	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.03	
5	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.06	0.06	0.01	0.01	0.03	0.03	0.03	0.03	0.08	0.09	0.09	0.09	0.06	0.03	0.00	0.00	0.09	
6	0.01	0.01	0.01	0.01	0.01	0.05	0.03	0.06	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.06	0.08	0.08	0.08	0.06	0.03	0.03	0.01	0.01	0.08
7	0.05	0.05	0.05	0.05	0.05	0.06	0.13	0.12	0.08	0.06	0.05	0.06	0.06	0.08	0.08	0.08	0.13	0.13	0.09	0.09	0.05	0.05	0.05	0.05	0.13	
8	0.07	0.08	0.08	0.08	0.09	0.13	0.19	0.22	0.22	0.12	0.09	0.09	0.08	0.09	0.09	0.09	0.21	0.22	0.09	0.09	0.08	0.08	0.06	0.06	0.22	
9	0.03	0.03	0.03	0.03	0.03	0.04	0.08	0.08	0.08	0.04	0.04	0.04	0.04	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.03	0.03	0.03	0.03	0.08	
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	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	
11	0.05	0.06	0.03	0.03	0.05	0.12	0.24	0.24	0.08	0.08	0.08	0.08	0.09	0.12	0.12	0.76	3.69	3.69	3.69	2.56	1.35	0.35	0.12	0.08	3.69	
12	0.01	0.01	0.01	0.01	0.03	0.03	0.10	0.09	0.09	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	0.00	0.10	
13	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	
14	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.08	0.08	0.66	0.66	0.56	0.44	0.22	0.01	0.01	0.00	0.66	
15	0.03	0.05	0.05	0.05	0.05	0.69	0.76	0.76	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.76	1.00	1.56	1.70	2.00	0.92	0.56	0.36	0.32	2.00	
16	0.03	0.03	0.03	0.03	0.05	0.09	0.09	0.11	0.08	0.07	0.06	0.05	0.05	0.05	0.05	0.09	0.16	0.12	0.12	0.12	0.05	0.05	0.05	0.02	0.16	
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	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
19	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	0.01	0.00	0.01	
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	0.01	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	0.00	0.00	0.01	
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	0.03	0.03	0.01	0.01	0.00	0.00	0.00	0.00	0.03	
27	0.01	0.01	0.01	0.01	0.01	0.57	0.63	0.56	0.36	0.32	0.22	0.25	0.25	0.25	0.25	0.31	0.66	0.52	0.52	0.36	0.15	0.03	0.01	0.01	0.66	
28	0.07	0.07	0.07	0.07	0.09	0.14	0.31	0.33	0.44	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.44	0.36	0.36	0.31	0.17	0.09	0.07	0.07	0.44	
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 2019

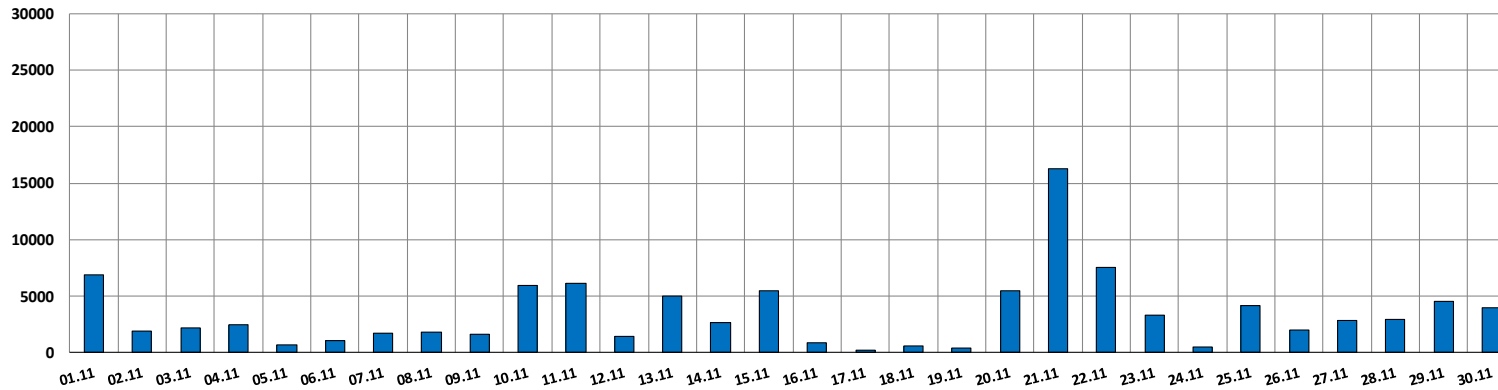
Market for Allocation of Cross-Border Capacities

Daily Allocation on Romanian – Serbian border



Transelectrica®
Societate Administrată în Sistem Dualist

Congestion Income RO



Day	Congestion Income border RO-RS [Euro]	Congestion Income RO [Euro]
01.11	13705	6852
02.11	3749	1875
03.11	4359	2180
04.11	5030	2515
05.11	1345	672
06.11	2172	1086
07.11	3517	1759
08.11	3570	1785
09.11	3235	1618
10.11	11850	5925
11.11	12224	6112
12.11	2895	1447
13.11	10056	5028
14.11	5376	2688
15.11	11006	5503
16.11	1744	872
17.11	348	174
18.11	1242	621
19.11	785	393
20.11	10978	5489
21.11	32634	16317
22.11	15155	7578
23.11	6650	3325
24.11	1056	528
25.11	8323	4162
26.11	4043	2021
27.11	5741	2870
28.11	5800	2900
29.11	9128	4564
30.11	8033	4016
Total	205750	102875

Daily Income [Euro]		Remuneration UIOSI [Euro]	
RO-RS	RS-RO	RO-RS	RS-RO
151909	53841	147862	51449
205750		199311	

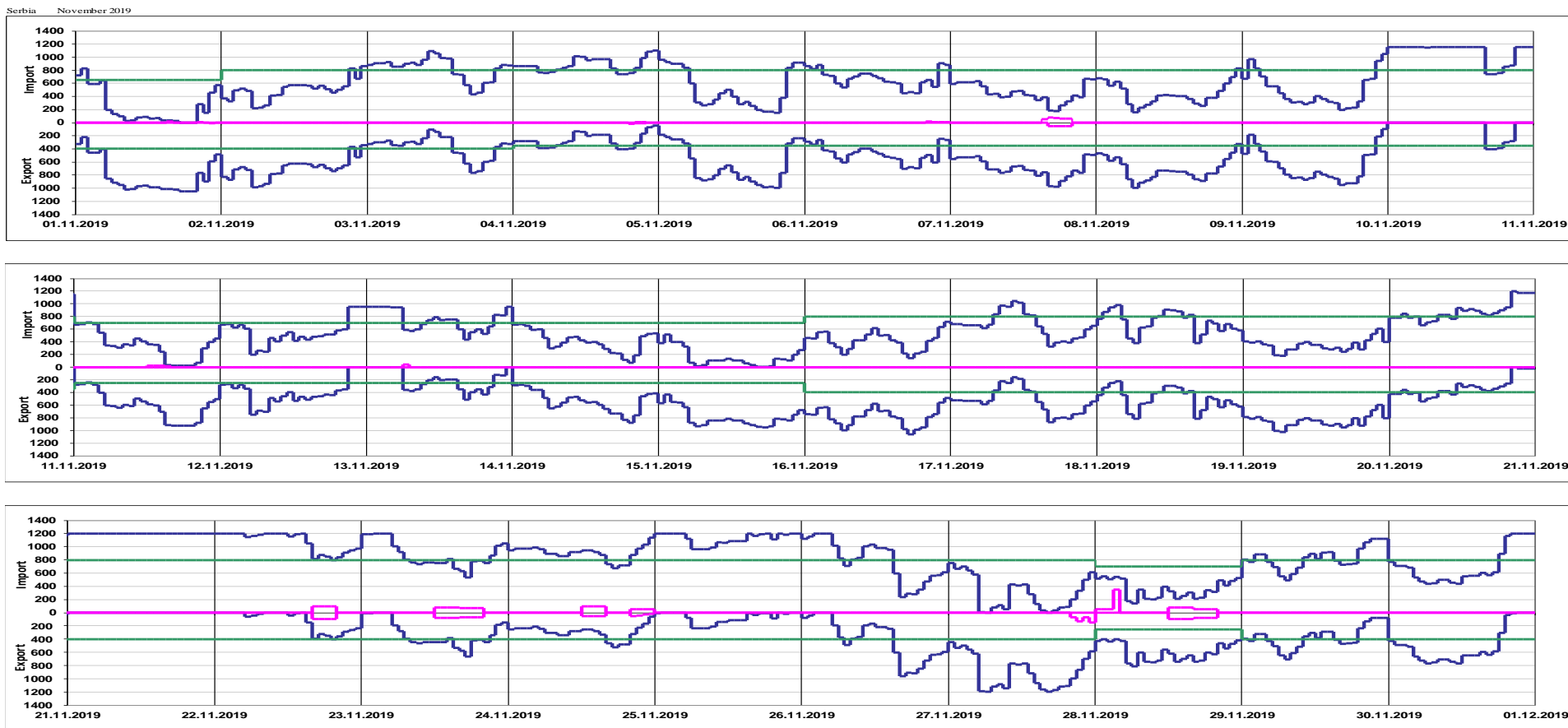
TSO Income (Z-R) [Euro]	RO TSO Income (Z-R) [Euro]
6439	3220

Market for Allocation of Cross-Border Capacities

Intraday Auctions on Romanian – Serbian border



Transelectrica®
Societate Administrată în Sistem Dualist



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

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

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

Public

Market for Allocation of Cross-Border Capacities

Intraday Auctions on Romanian – Serbian border



Transelectrica®
Societate Administrată în Sistem Dualist

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	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
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
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
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
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
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
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	
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
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

Serbia November 2019



Transelectrica®
Societate Administrată în Sistem Dualist

Market for Allocation of Cross-Border Capacities

Statistics on Monthly Auction

November 2019		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	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
	Number of Capacity Holders	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	Number of Bids	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
Hungary import	Number of Capacity Traders	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Number of Capacity Holders	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
	Number of Bids	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139
Bulgaria 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	24
	Number of Capacity Holders	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 Bids	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64
Bulgaria import	Number of Capacity Traders	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	Number of Capacity Holders	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
	Number of Bids	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124
Serbia export	Number of Capacity Traders	11	11	11	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	10	10
	Number of Capacity Holders	10	10	10	7	7	7	7	7	7	7	4	4	4	4	4	9	9	9	9	9	9	9	9	9	9	9	9	4	9	9
	Number of Bids	48	48	48	44	44	44	44	44	44	44	40	40	40	40	40	45	45	45	45	45	45	45	45	45	45	45	32	37	37	
Serbia import	Number of Capacity Traders	12	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	11	11	
	Number of Capacity Holders	7	11	11	11	11	11	11	11	11	11	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	11	10	10	10	
	Number of Bids	54	54	54	54	54	54	54	54	54	54	56	56	56	56	56	57	57	57	57	57	57	57	57	57	57	57	56	55	55	
Ukraine export	Number of Capacity Traders	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Number of Capacity Holders	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	Number of Bids	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	
Ukraine import	Number of Capacity Traders	6	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	Number of Capacity Holders	3	4	4	4	4	4	4	4	4	4	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
	Number of Bids	10	18	18	24	24	24	24	24	23	23	14	14	14	14	14	24	24	24	24	24	24	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 2019	Maximum	Minimum
Number of Capacity Traders	30	5
Number of Capacity Holders	17	3
Number of Bids	139	10

Market for Allocation of Cross-Border Capacities



Statistics on Daily Auctions

November 2019		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	7	8	8	8	8	8	9	8	9	9	8	8	9	8	8	8	6	9	8	9	11	11	9	8	9	7	6	8	8	9
	Maximum Number of Capacity Holders	6	7	5	6	7	6	7	7	6	5	7	7	6	5	5	7	5	6	6	6	6	5	5	5	7	6	6	5	5	6
	Maximum Number of Bids	22	25	23	22	24	25	26	25	28	23	20	27	29	24	22	25	15	25	26	30	39	36	27	17	23	21	20	26	30	31
Serbia Import	Maximum Number of Capacity Traders	9	9	8	8	9	10	9	9	9	7	9	8	8	10	10	9	6	8	10	8	8	7	9	7	8	8	9	11	7	9
	Maximum Number of Capacity Holders	7	7	8	8	9	9	8	8	8	7	7	8	8	9	9	9	6	8	10	8	8	7	9	7	8	8	9	9	7	9
	Maximum Number of Bids	31	26	23	24	29	31	30	33	28	18	33	24	22	34	40	35	17	24	28	22	25	23	25	15	19	25	34	39	21	21
Bulgaria Export	Maximum Number of Capacity Traders	14	11	13	13	13	13	13	14	15	11	12	14	13	13	14	13	10	12	13	13	14	15	13	10	12	12	12	13	14	13
	Maximum Number of Capacity Holders	12	10	9	10	10	12	12	13	12	7	10	12	11	12	11	12	9	10	10	11	10	11	10	8	10	11	12	11	10	9
	Maximum Number of Bids	22	21	25	24	22	24	22	24	25	18	21	24	28	25	26	28	16	23	27	28	32	29	26	17	24	26	23	27	28	25
Bulgaria Import	Maximum Number of Capacity Traders	14	11	11	13	14	13	16	15	14	10	14	15	16	15	15	14	12	12	15	15	14	14	12	11	12	15	14	16	14	13
	Maximum Number of Capacity Holders	11	9	9	11	11	12	12	11	11	10	11	15	15	13	14	14	11	10	14	14	13	12	12	10	11	13	13	14	14	13
	Maximum Number of Bids	26	24	26	25	26	23	28	29	25	18	24	27	24	27	28	24	23	21	25	24	23	23	23	20	22	31	25	27	25	21

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

Statistics on Intraday Auctions

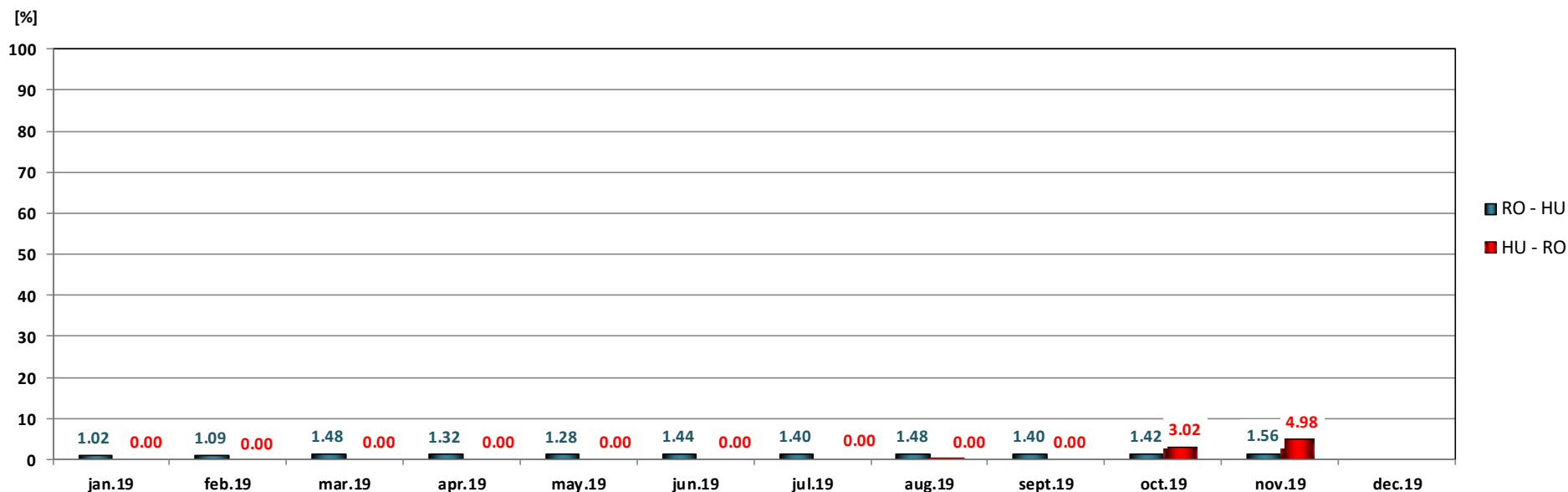
November 2019		Intraday Auctions																													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Hungary Export	Maximum Number of Capacity Traders	1	0	0	1	0	1	1	1	0	0	1	1	1	0	0	0	0	1	0	-	-	-	-	-	-	-	-	-	-	-
	Maximum Number of Capacity Holders	1	-	-	1	-	1	1	1	-	-	1	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Hungary Import	Maximum Number of Capacity Traders	0	0	0	1	0	1	2	1	1	0	1	0	1	0	0	0	1	1	1	-	-	-	-	-	-	-	-	-	-	
	Maximum Number of Capacity Holders	-	-	-	1	-	1	2	1	1	-	1	-	1	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	
Serbia Export	Maximum Number of Capacity Traders	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1	1	0	
	Maximum Number of Capacity Holders	1	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	-	1	1	-	
Serbia Import	Maximum Number of Capacity Traders	3	0	0	1	0	1	3	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0	
	Maximum Number of Capacity Holders	3	-	-	1	-	1	3	-	-	-	1	-	1	-	-	-	-	-	-	-	-	1	1	1	1	-	-	1	-	

Note: In the table are presented the daily maximum hourly values. Starting with 20.11.2019, implicit intraday allocation with continuous trading is organized on the Hungarian border, due to the integration of Romanian intraday market in SIDC (Single Intra-Day Market).

Long term Auction on Romanian – Hungarian border

Usage Level of Allocated Capacity

Usage Level of Yearly and Monthly Allocated Capacity on Romanian - Hungarian 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 after returns. From the beginning of the year, the average values (arithmetic) of usage level are: 1.35 % on export direction and 0.73 % on import direction.



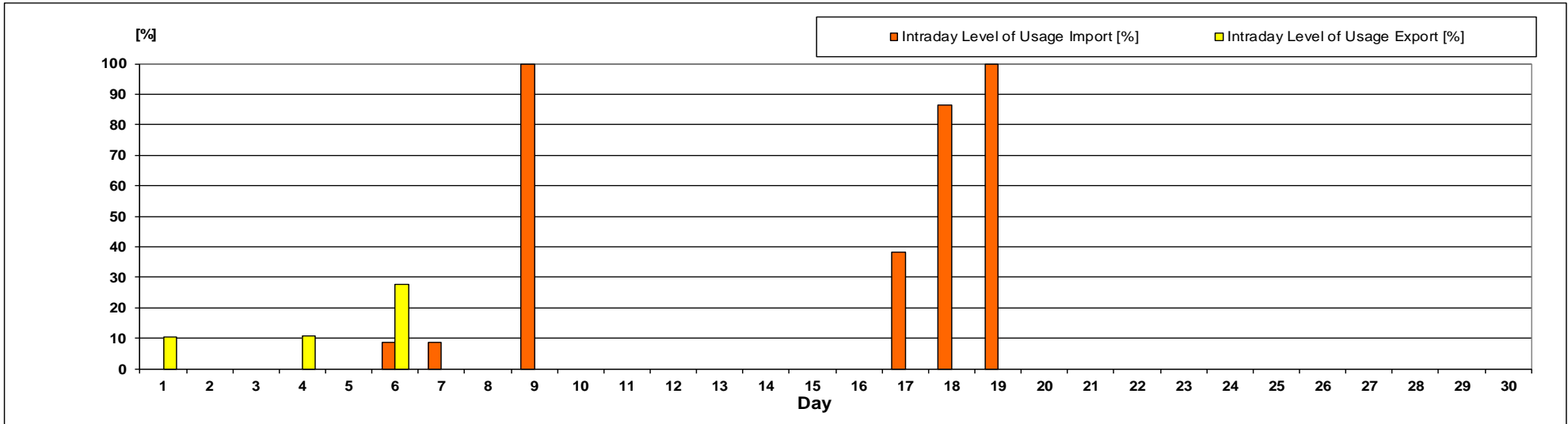
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Market for Allocation of Cross-Border Capacities

Intraday Auctions on Romanian – Hungarian border

Usage Level of Intraday Allocated Capacity

Hungary November 2019



Intraday Level of Usage [%]

November 2019	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	-	8.64	8.62	0.00	100.00	-	0.00	-	0.00	-	-	-	38.25	86.33	100.00	-	-	-	-	-	-	-	-	-	-	
Export	10.56	-	-	10.79	-	27.78	0.00	0.00	-	-	0.00	0.00	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 35.06 [%]
- Export 8.07 [%]

Note: Starting with 20.11.2019, implicit intraday allocation with continuous trading is organized on the Hungarian border, due to the integration of Romanian intraday market in SIDC (Single Intra-Day Market).

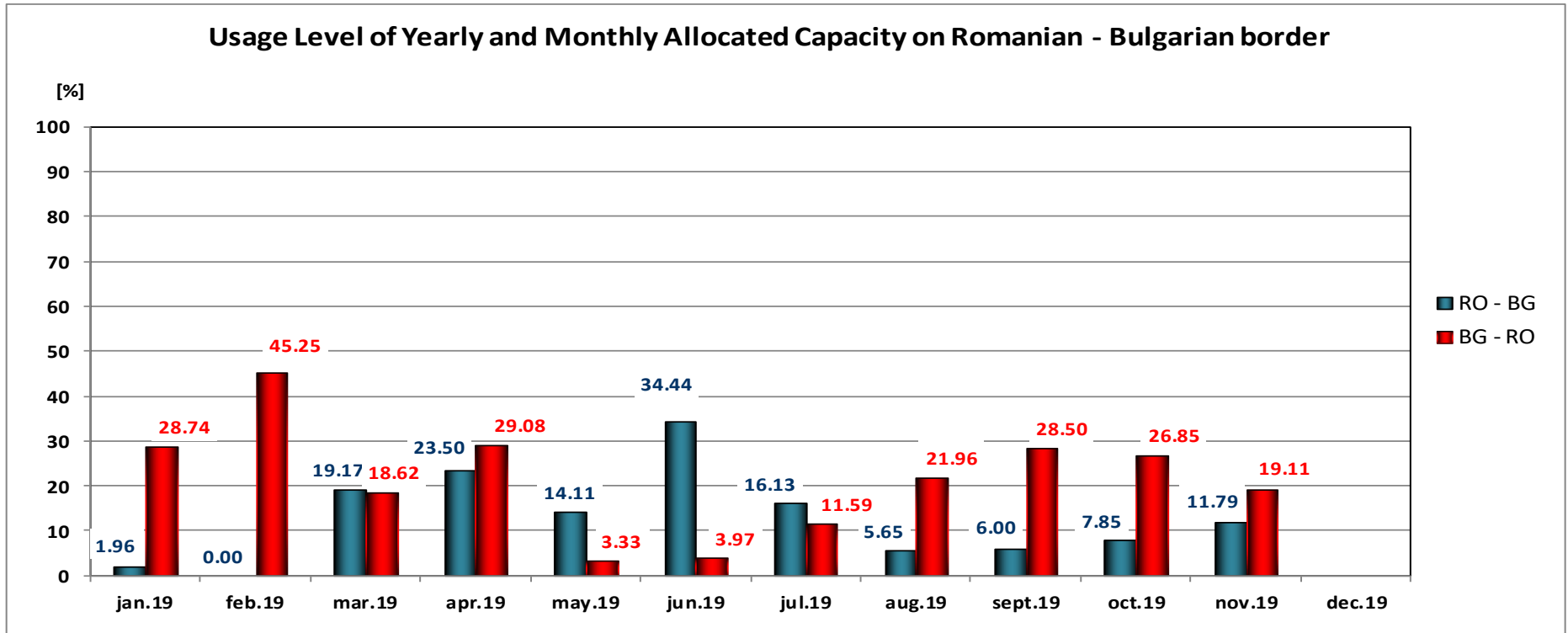


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Market for Allocation of Cross-Border Capacities

Long term Auction on Romanian – Bulgarian border

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 after returns.

From the beginning of the year, the average values (arithmetic) of usage level are: 12.78 % on export direction and 21.55 % on import direction.



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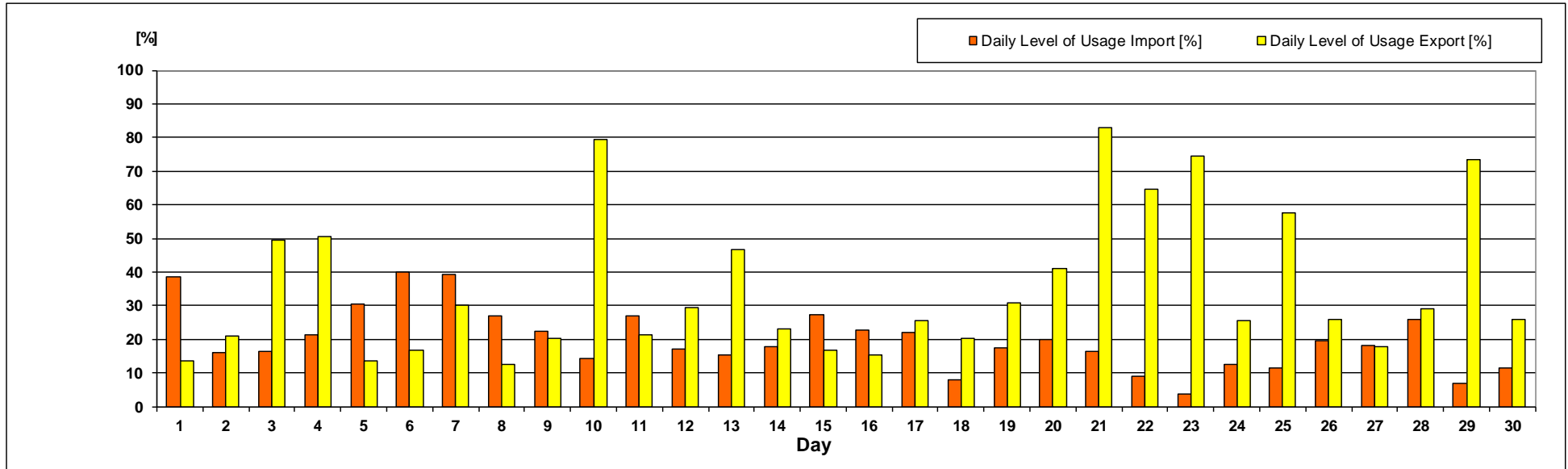
Market for Allocation of Cross-Border Capacities

Daily Auctions on Romanian – Bulgarian border

Usage Level of Daily Allocated Capacity

RO-BG

November 2019



Daily Level of Usage [%]

November 2019	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	38.48	15.94	16.36	21.34	30.45	40.13	39.34	26.92	22.47	14.43	26.97	17.15	15.25	17.85	27.20	22.54	21.99	7.80	17.59	20.07	16.34	8.85	3.84	12.58	11.39	19.69	17.97	25.79	6.91	11.49
Export	13.57	20.81	49.45	50.40	13.42	16.83	29.93	12.49	20.35	79.52	21.23	29.52	46.58	23.23	16.74	15.45	25.54	20.17	30.92	40.85	82.98	64.57	74.49	25.55	57.44	25.71	17.87	29.22	73.28	26.02

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 18.77 [%]
- Export 34.30 [%]

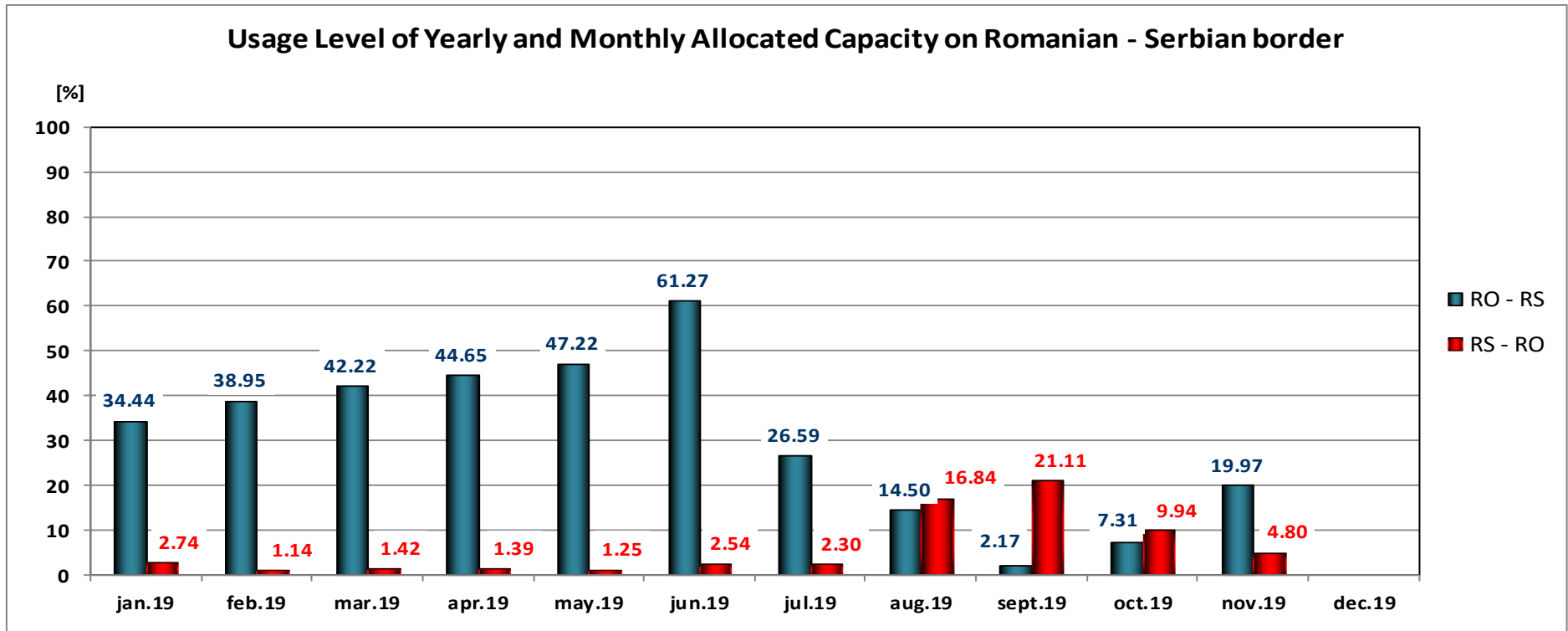


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Market for Allocation of Cross-Border Capacities

Long term Auction on Romanian – Serbian border

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 after returns.

From the beginning of the year, the average values (arithmetic) of usage level are: 30.85 % on export direction and 5.95 % on import direction.



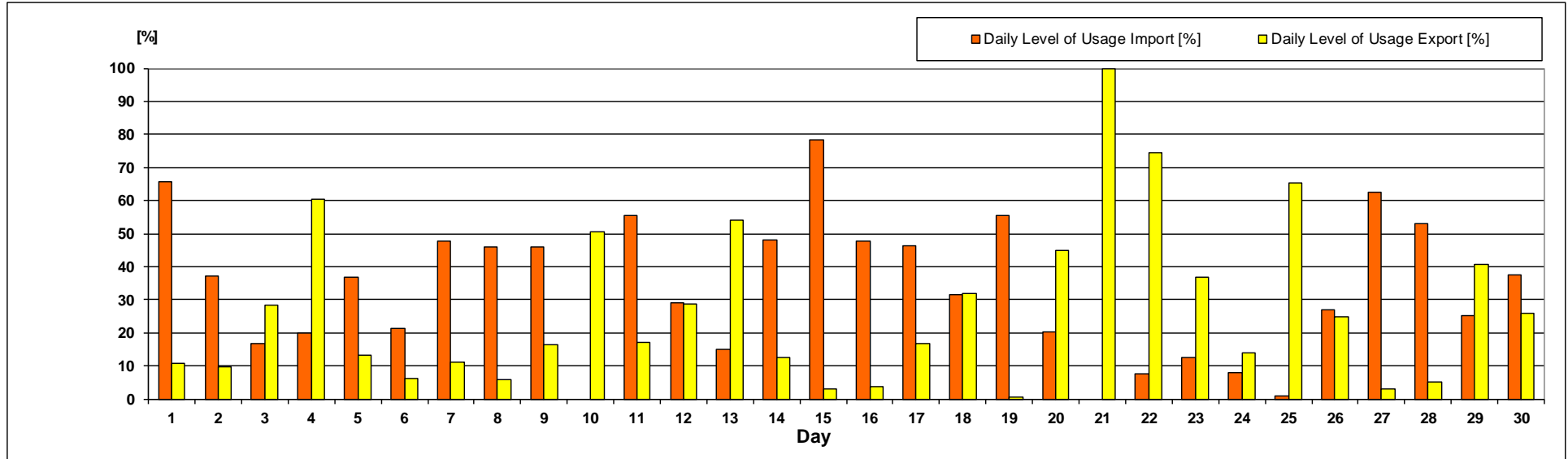
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Market for Allocation of Cross-Border Capacities

Daily Auctions on Romanian – Serbian border

Usage Level of Daily Allocated Capacity

Serbia November 2019



Gradul zilnic de utilizare [%]

Serbia	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	65.69	37.06	16.75	19.89	36.77	21.37	47.75	45.94	45.82	0.00	55.55	29.16	14.85	48.08	78.44	47.78	46.36	31.68	55.50	20.18	0.00	7.65	12.36	7.85	0.82	26.91	62.62	53.16	25.03	37.35
Export	10.57	9.73	28.34	60.23	13.27	6.29	10.97	5.88	16.39	50.54	17.14	28.82	54.04	12.34	3.13	3.73	16.74	31.80	0.36	45.05	100.00	74.46	36.82	14.02	65.49	24.67	2.93	5.11	40.59	25.82

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 32.80 [%]
- Export 23.42 [%]



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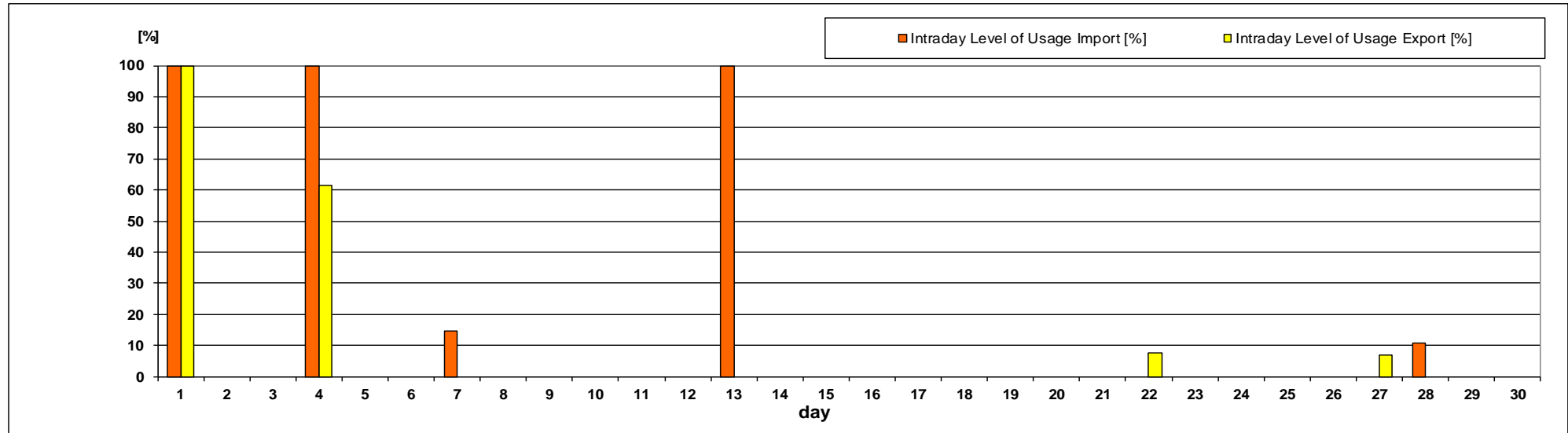
Market for Allocation of Cross-Border Capacities

Intraday Auctions on Romanian – Serbian border

Usage Level of Intraday Allocated Capacity

Serbia

November 2019



Intraday Level of Usage [%]

November 2019	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	-	-	100.00	-	0.00	14.76	-	-	-	0.00	-	100.00	-	-	-	-	-	-	-	-	0.00	0.00	0.00	-	-	-	10.59	-	-
Export	100.00	-	-	61.54	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.50	0.00	0.00	-	-	6.70	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 7.89 [%]
- Export 3.22 [%]

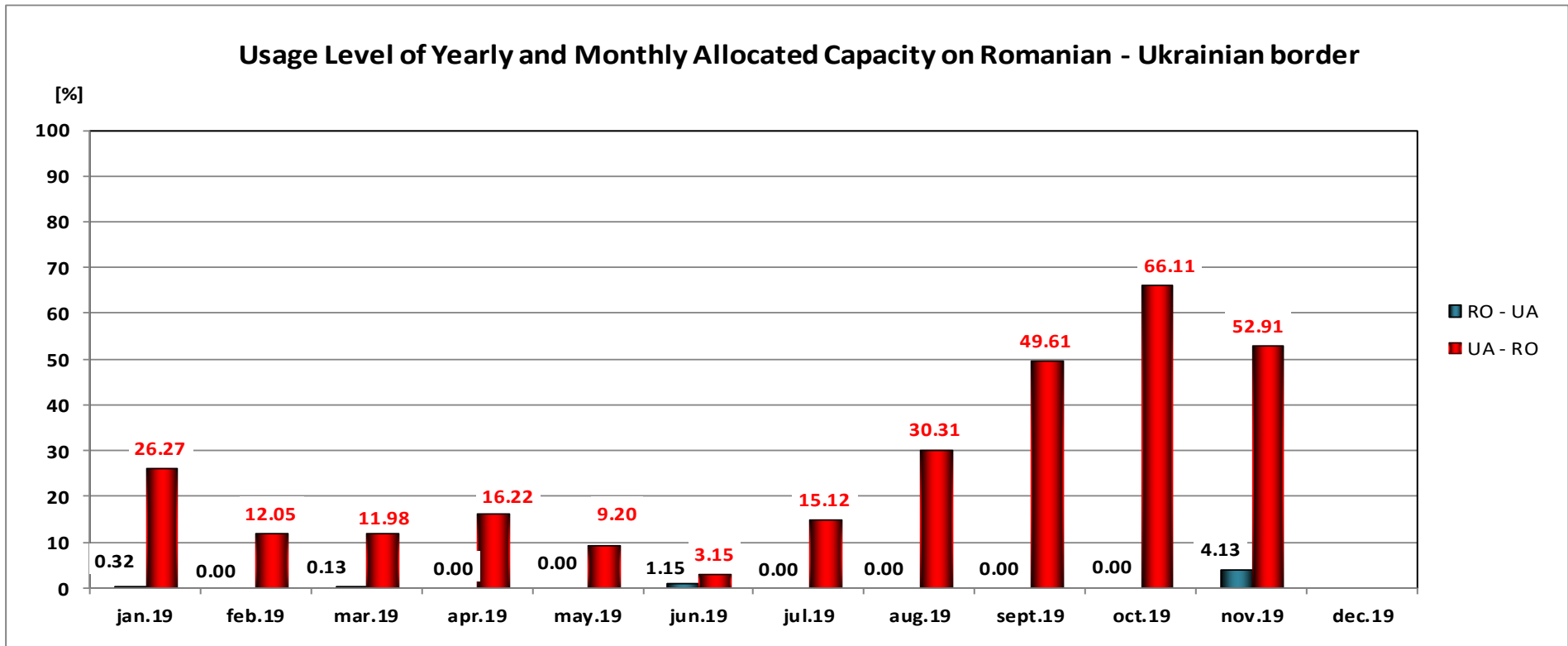
Market for Allocation of Cross-Border Capacities



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Long term Auction on Romanian – Ukrainian border

Usage Level of Allocated Capacity



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.

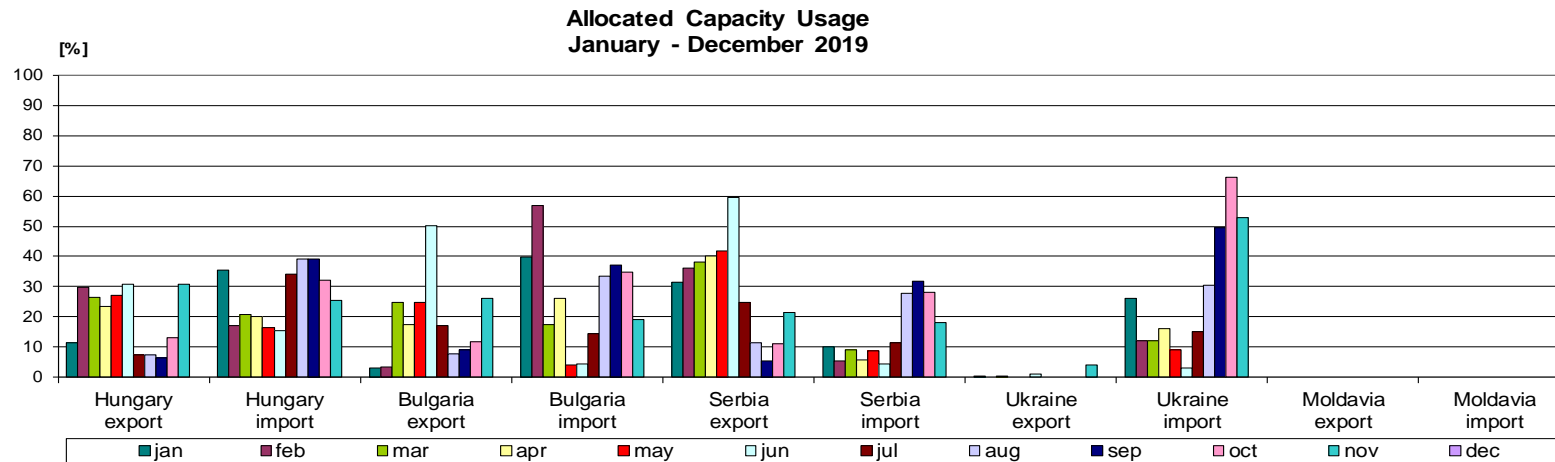
From the beginning of the year, the average values (arithmetic) of usage level are: 0.57 % on export direction and 26.63 % on import direction.

Market for Allocation of Cross-Border Capacities



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The level of usage of total capacity rights on one border and direction represent the percentage ratio between the energy associated with the commercial transactions, nominated during a month, and the energy associated with the total capacity rights.

[%]	Hungary export	Hungary import	Bulgaria export	Bulgaria import	Serbia export	Serbia import	Ukraine export	Ukraine import	Moldavia export	Moldavia import
jan	11.45	35.42	3.24	39.66	31.42	10.17	0.32	26.27	-	-
feb	29.85	17.03	3.57	56.84	36.18	5.51	0.00	12.05	-	-
mar	26.58	20.84	24.84	17.56	38.13	9.26	0.13	11.98	-	-
apr	23.63	20.08	17.40	25.97	40.28	5.82	0.00	16.22	-	-
may	27.03	16.41	24.88	3.96	41.97	8.71	4.47	9.20	-	-
jun	30.80	15.36	50.17	4.33	59.52	4.47	1.15	3.15	-	-
jul	7.33	34.16	17.25	14.32	24.68	11.50	0.00	15.12	-	-
aug	7.36	39.32	7.79	33.64	11.36	27.96	0.00	30.31	-	-
sep	6.54	39.03	9.15	37.07	5.46	31.92	-	49.61	-	-
oct	13.26	32.12	11.88	34.85	11.17	28.25	0.00	66.11	-	-
nov	30.83	25.38	26.23	19.17	21.50	18.23	4.13	52.91	-	-
dec										
average	19.51	26.83	17.85	26.12	29.24	14.71	0.57	26.63	-	-

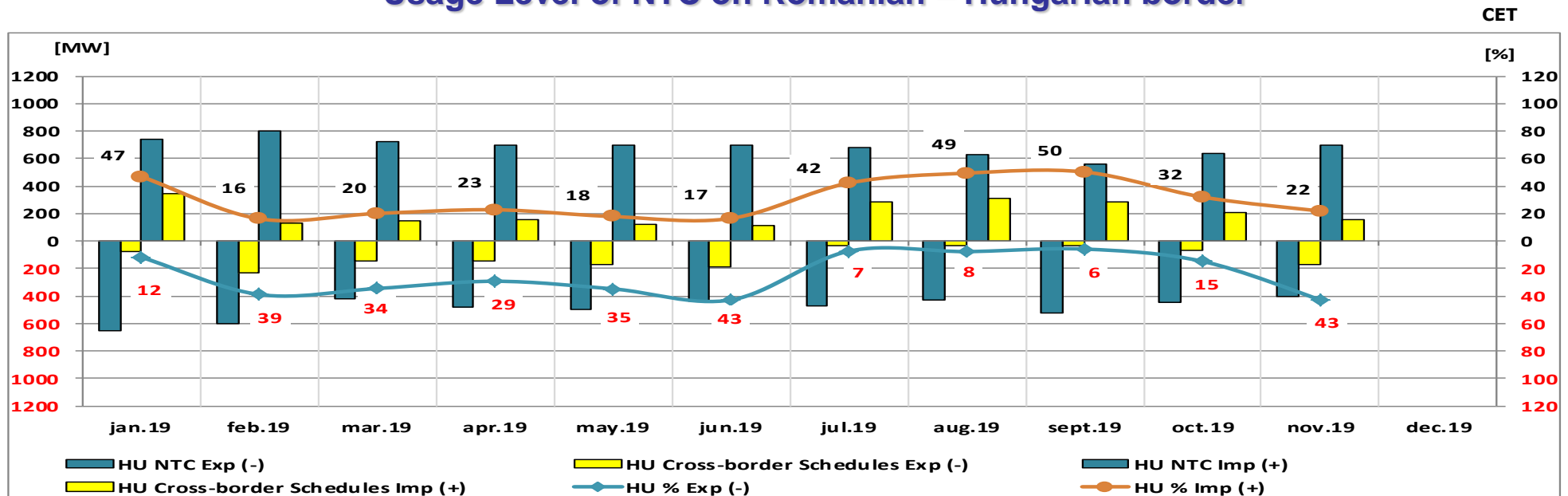
Type B

In November 2019, it was noticed a low level of capacity usage. On export direction and the highest level of usage was on Hungarian border and on the import direction the highest level of usage was on Ukraine border.

Market for Allocation of Cross-Border Capacities



Usage Level of NTC on Romanian – Hungarian border



Hungary (monthly averages values, MW)	jan.19	feb.19	mar.19	apr.19	may.19	jun.19	jul.19	aug.19	sept.19	oct.19	nov.19	dec.19
HU NTC Exp (-)	-650	-600	-423	-482	-500	-437	-468	-429	-527	-447	-398	
HU Cross-border Schedules Exp (-)	-76	-233	-146	-141	-174	-187	-34	-33	-30	-66	-170	
HU NTC Imp (+)	745	800	725	700	700	700	684	634	560	636	698	
HU Cross-border Schedules Imp (+)	350	130	146	160	125	116	289	314	282	204	153	

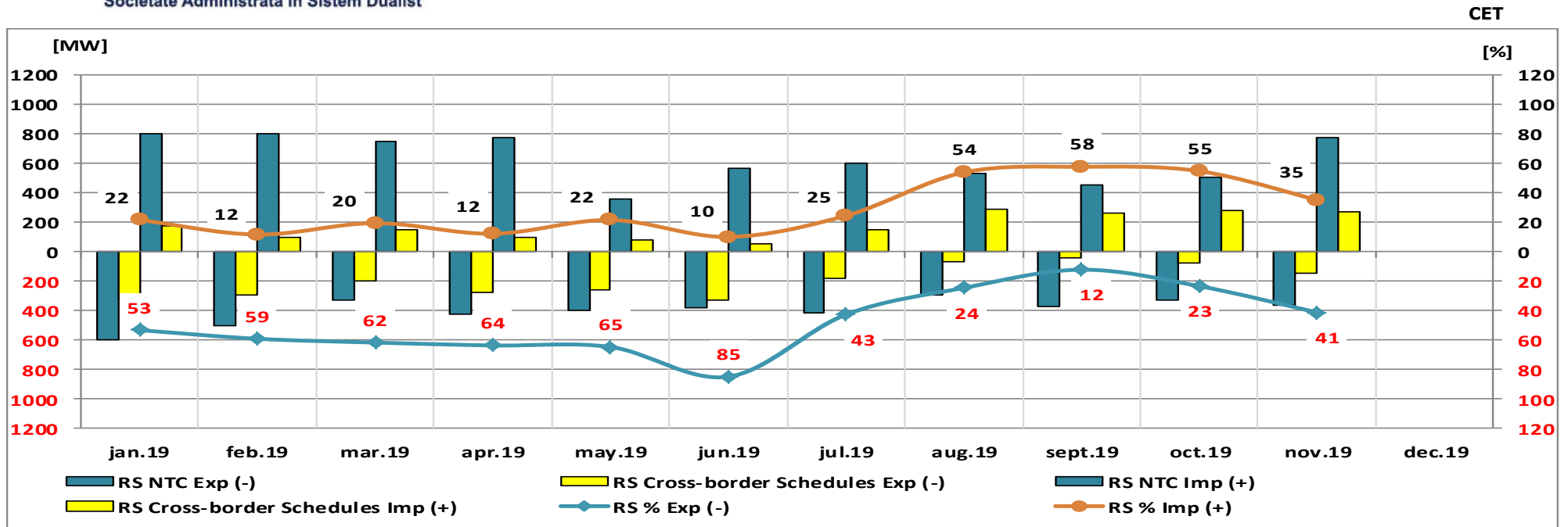
The level of usage was calculated as ratio between total cross-border schedules (capacity nominated on long and short term) and NTC. From the beginning of the year, the average values (arithmetic) of usage level are: 24.53% on export direction and 30.6% on import direction.



Market for Allocation of Cross-Border Capacities

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Usage Level of NTC on Romanian – Serbian border



Serbia (monthly averages values, MW)	jan.19	feb.19	mar.19	apr.19	may.19	jun.19	jul.19	aug.19	sept.19	oct.19	nov.19	dec.19
RS NTC Exp (-)	-600	-500	-325	-427	-400	-383	-416	-289	-372	-329	-358	
RS Cross-border Schedules Exp (-)	-319	-295	-200	-271	-258	-325	-177	-71	-45	-77	-147	
RS NTC Imp (+)	800	800	753	773	360	567	603	531	452	507	775	
RS Cross-border Schedules Imp (+)	174	94	147	95	78	58	148	286	261	278	273	

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: 48.21% on export direction and 29.42% on import direction.

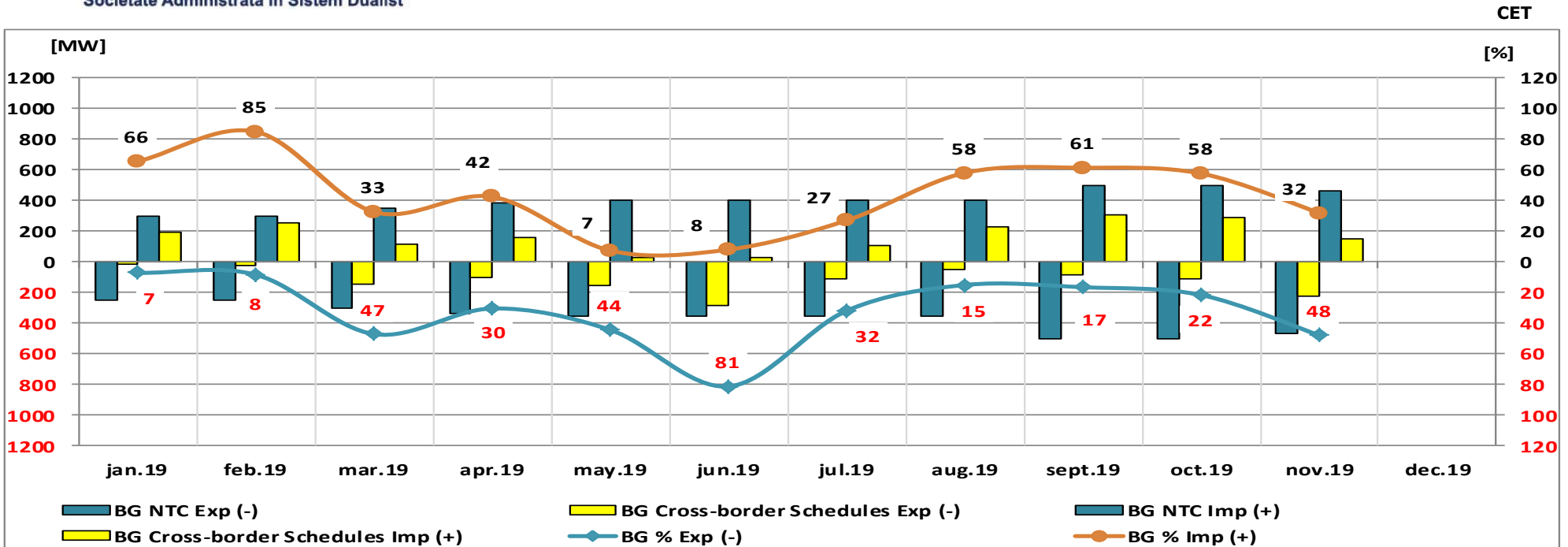


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Market for Allocation of Cross-Border Capacities

Usage Level of NTC on Romanian – Bulgarian border



Bulgaria (monthly averages values, MW)	jan.19	feb.19	mar.19	apr.19	may.19	jun.19	jul.19	aug.19	sept.19	oct.19	nov.19	dec.19
BG NTC Exp (-)	-250	-250	-300	-333	-350	-350	-350	-350	-500	-500	-463	
BG Cross-border Schedules Exp (-)	-18	-21	-142	-101	-155	-284	-112	-53	-83	-108	-222	
BG NTC Imp (+)	300	300	350	383	400	400	400	400	500	500	463	
BG Cross-border Schedules Imp (+)	197	255	114	163	29	32	108	232	307	288	148	

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: 31.97% on export direction and 43.35% on import direction.

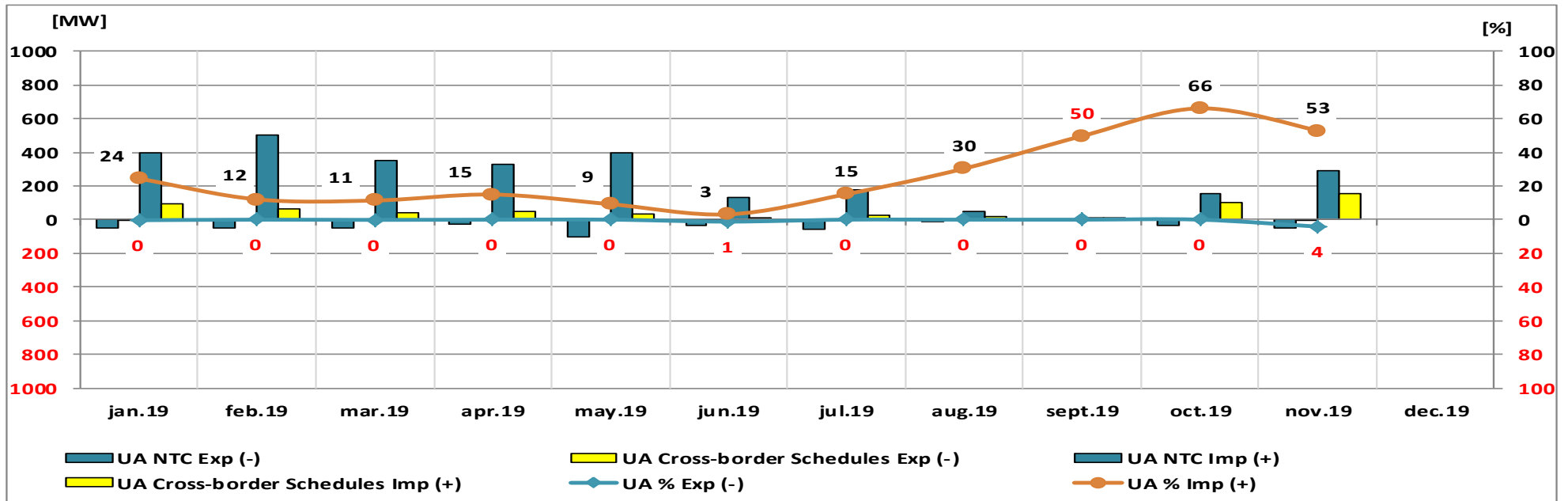


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Market for Allocation of Cross-Border Capacities

Usage Level of NTC on Romanian – Ukrainian border

CET



Ukraine (monthly averages values, MW)	jan.19	feb.19	mar.19	apr.19	may.19	jun.19	jul.19	aug.19	sept.19	oct.19	nov.19	dec.19
UA NTC Exp (-)	-50	-50	-50	-25	-100	-33	-58	-13	0	-34	-50	
UA Cross-border Schedules Exp (-)	-0.2	0.0	-0.1	0.0	0.0	-0.4	0.0	0.0	-	0.0	-2.1	
UA NTC Imp (+)	400	500	352	332	400	133	181	52	5	155	288	
UA Cross-border Schedules Imp (+)	97	60	40	50	37	4	27	16	2	102	153	

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: 0.57 % on export direction and 26.28 % on import direction.



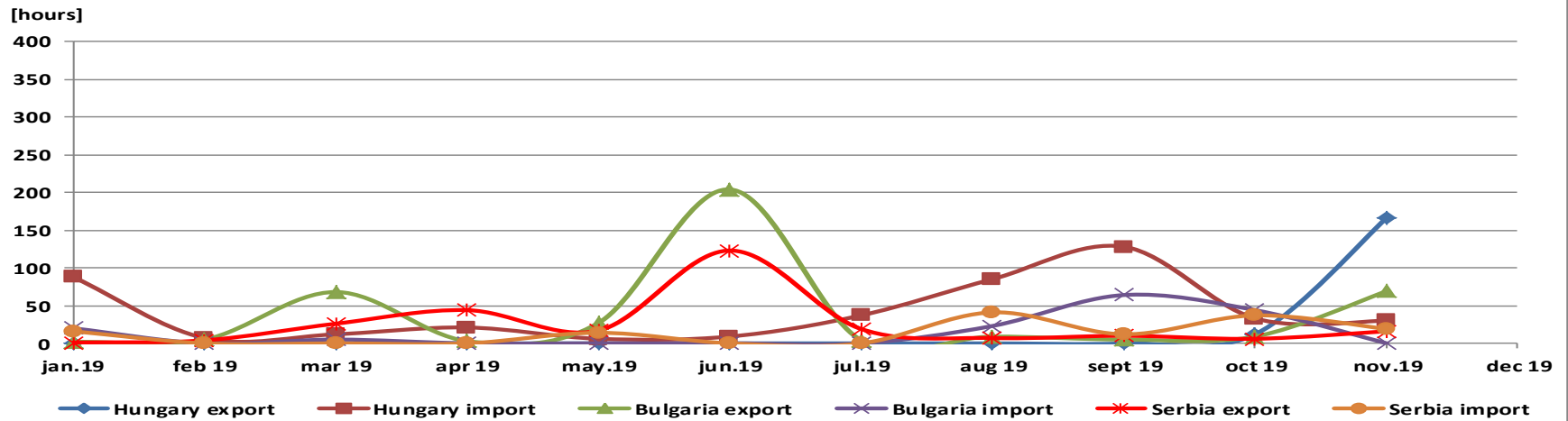
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Market for Allocation of Cross-Border Capacities

Maximization of NTC Usage

CET

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



Number of hours	jan.19	feb 19	mar 19	apr 19	may.19	jun.19	jul.19	aug 19	sept 19	oct 19	nov.19	dec 19
Hungary export	0	0	0	0	0	0	0	0	0	12	166	
Hungary import	88	7	12	21	6	9	37	85	128	33	30	
Bulgaria export	2	5	68	3	27	204	4	9	5	9	69	
Bulgaria import	20	0	5	0	0	0	0	23	64	44	0	
Serbia export	1	4	26	44	17	123	19	7	10	6	16	
Serbia import	16	0	0	0	14	0	0	41	12	37	19	

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.

Market for Allocation of Cross-Border Capacities



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

November 2019

Border	Auction												Total		
	Yearly			Monthly			Daily			Intraday			C1 [%]	C3 [%]	HHI
	C1 [%]	C3 [%]	HHI	C1 [%]	C3 [%]	HHI	C1 [%]	C3 [%]	HHI	C1 [%]	C3 [%]	HHI			
Hungary import	37.14	65.43	1935	25.00	70.00	1807	-	-	-	44.15	97.01	3591	33.73	61.77	1680
Hungary export	21.43	53.43	1261	42.41	74.06	2456	-	-	-	49.14	98.29	3681	19.12	52.19	1157
Bulgaria import	26.67	69.33	1904	22.17	44.33	1068	30.28	59.13	1521	-	-	-	22.14	44.80	955
Bulgaria export	13.42	39.60	990	23.29	52.51	1298	28.21	74.40	2004	-	-	-	19.18	53.16	1099
Serbia import	24.50	64.00	1672	20.75	59.37	1505	40.00	74.39	2358	91.34	99.20	8377	19.24	53.77	1287
Serbia export	33.50	68.50	2027	30.32	59.96	1685	38.06	78.55	2442	82.90	100.00	7120	22.14	51.97	1317
Ukraine import	-	-	-	48.90	89.13	3303	-	-	-	-	-	-	48.90	89.13	3303
Ukraine export	-	-	-	50.00	100.00	3800	-	-	-	-	-	-	50.00	100.00	3800
Moldavia import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note:

- On the Hungarian border the implicit daily allocation is done through the market coupling mechanism of CZ-SK-HU day-ahead electricity markets (starting with 20.11.2014) and implicit intraday allocation is organized due to the integration of Romanian intraday market in SIDC - Single Intra-Day Market (starting with 20.11.2019).
- On the Bulgarian border implicit intraday allocation is organized due to the integration of Romanian intraday market in SIDC (Single Intra-Day Market) (starting with 20.11.2019).



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