



Transelectrica®
Societate Administrată în Sistem Dualist

MARKET MONITORING REPORT

Market for Allocation of Cross-Border Capacities

January 2020

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.

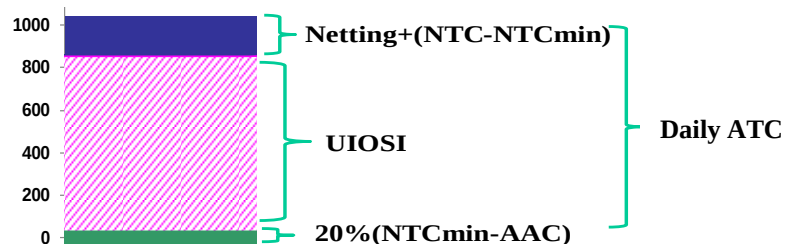
Using the records from the markets data base, Transelectrica prepares daily, weekly and monthly monitoring reports. A part of the data included in these reports (those data which are not confidential) is published on the website **www.transelectrica.ro**



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- According to the agreements between Transelectrica and neighbors for year 2020 :
 - ✓ 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, starting with 20.11.2019 is organized implicit intraday allocation with continuous trading, 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 intraday auctions. The “netting” is applied to daily and intraday allocation. The intraday 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.
 - ✓ 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 provided 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.
- Yearly auctions for 2020 were held as: import/export Hungary*; import/export Bulgaria* and import/export Serbia during the period 01.01 – 31.12.2020; following the harmonization of NTC with the neighbor TSO to the minimum value, on the Ukrainian border the NTC was zero at yearly auction.
- Monthly auctions for January 2020 were held as: import/export Hungary*; import/export Bulgaria*; import/export Serbia and import/export Ukraine during the period 01.01 – 31.01.2020.
- In January 2020 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.

Yearly auction Results of 01 January – 31 December 2020

	Prices [euro/MWh]	Capacities [MW]					
	Resultes	TTC	NTC	ATC	Requested	Alocated	Final Rights
Hungary export							
01 January - 31 December 2020	1.03	450	350	350	2649	349	349
Hungary import							
01 January - 31 December 2020	1.28	450	350	350	2391	350	350
Bulgaria export							
01 January - 31 December 2020	0.77	350	250	250	2218	249	199
Bulgaria import							
01 January - 31 December 2020	1.43	350	250	250	2275	250	250
Serbia export							
01 January - 31 December 2020	0.56	350	250	250	962	250	250
Serbia import							
01 January - 31 December 2020	0.82	350	250	250	856	250	250
Ukraine export							
01 January - 31 December 2020	-	0	0	-	-	-	-
Ukraine import							
01 January - 31 December 2020	-	0	0	-	-	-	-
Moldavia export							
01 January - 31 December 2020	-	-	-	-	-	-	-
Moldavia import							
01 January - 31 December 2020	-	-	-	-	-	-	-

Note:
Requested = requested capacity that remains after automatic rejection of the offers with credit limit exceeded

Final rights = yearly allocated capacity (total value on the border and direction) after returns and withdrawals of rights (the results of non compliance with the contractual obligations).



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Market for Allocation of Cross-Border Capacities

Monthly auction Results of 01 – 31 January 2020

	Prices [euro/MWh]	Capacities [MW]								
	Results	TTC	NTC	ATC	AAC	Reserved	Offered	Requested	Alocated	Final Rights
Hungary export 01 - 31 January 2020	1.05	700	600	251	349	0	201	2118	201	550
Hungary import 01 - 31 January 2020	1.67	800	700	350	350	0	280	2448	279	629
Bulgaria export 01 - 31 January 2020	0.71	700	600	351	249	50	330	2314	330	529
Bulgaria import 01 - 31 January 2020	0.41	700	600	350	250	0	280	1953	280	530
Serbia export 01 - 31 January 2020	0.36	600	500	250	250	-	250	922	250	500
Serbia import 01 - 31 January 2020	0.66	800	700	450	250	-	450	1226	450	700
Ukraine export 01 - 31 January 2020	0.20	300	200	200	-	-	200	316	200	200
Ukraine import 01 - 31 January 2020	0.45	500	400	400	-	-	400	965	400	400
Moldavia export 01 - 31 January 2020	-	-	-	-	-	-	-	-	-	-
Moldavia import 01 - 31 January 2020										
RO_Vulcanesti 01 - 31 January 2020	-	-	-	-	-	-	-	-	-	-
RO_Costesti 01 - 31 January 2020	-	-	-	-	-	-	-	-	-	-
RO_Cioara 01 - 31 January 2020	-	-	-	-	-	-	-	-	-	-

Note:

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

Requested = requested capacity that remains after automatic rejection of the offers with credit limit exceeded

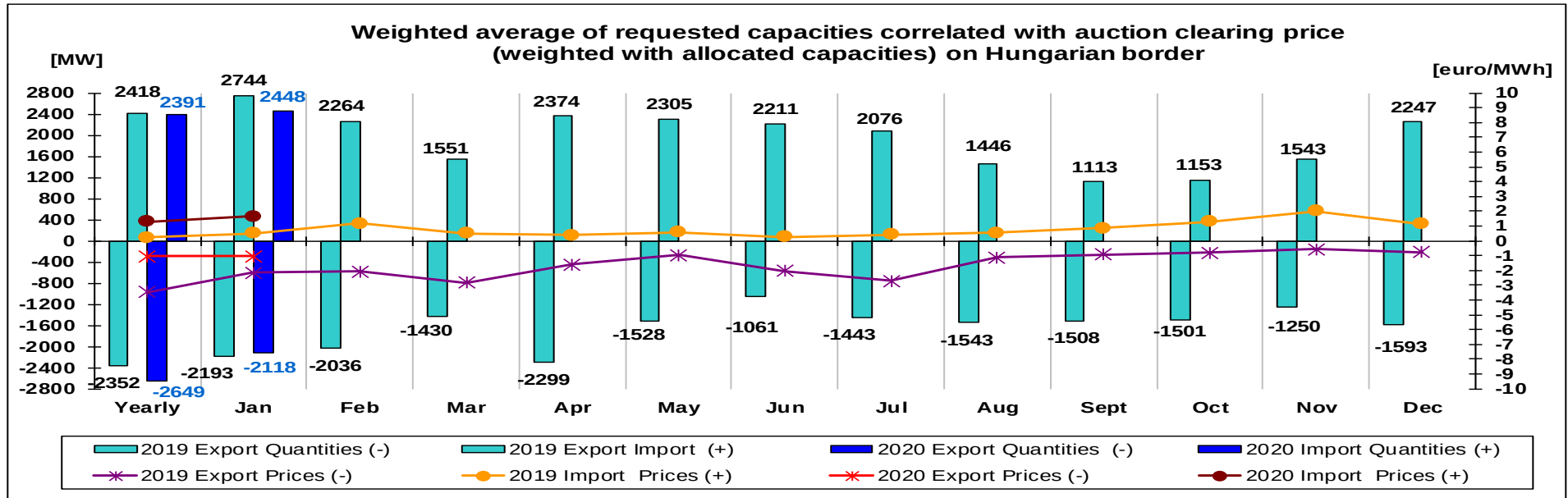
Final rights = monthly allocated capacity + yearly allocated capacity after returns and withdrawals.



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Market for Allocation of Cross-Border Capacities



Border	Yearly	Jan. 20	Feb.20	Mar.20	Apr.20	May 20	Jun. 20	Jul. 20	Aug. 20	Sept. 20	Oct. 20	Nov.20	Dec. 20
Hungary export	1.03	1.05											
Hungary import	1.28	1.67											

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	0.75
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	1.13

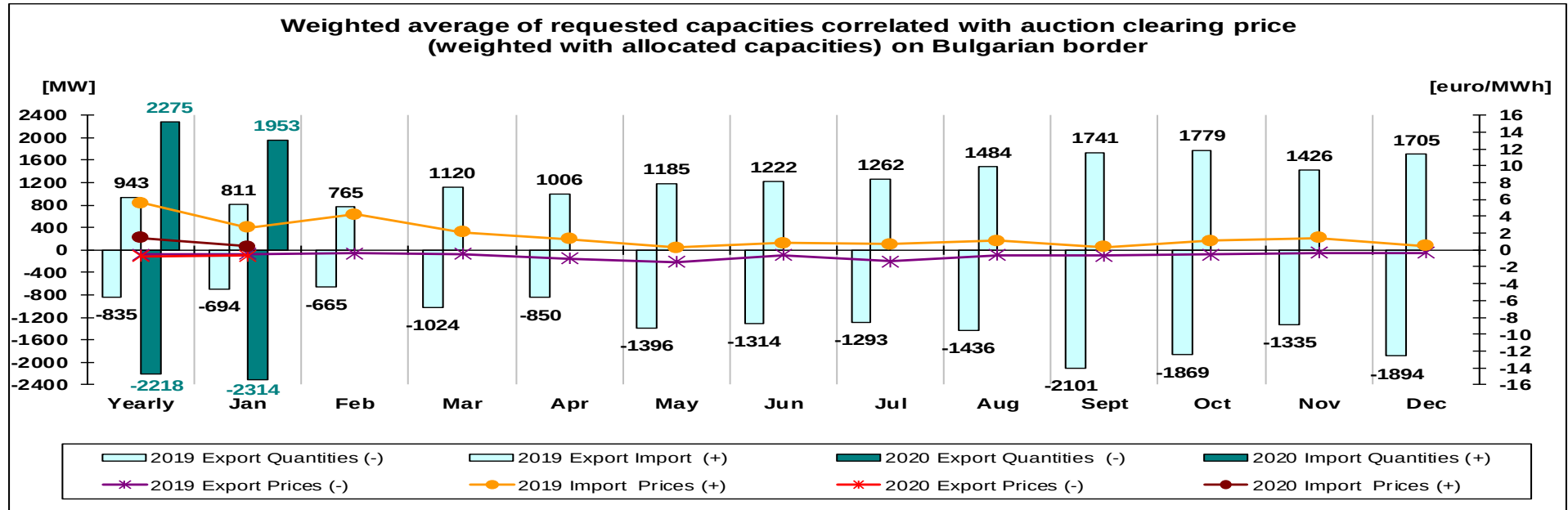
- Compared with previous year, in January 2020 the auction price significantly decreased on export direction, while offered capacity and requested capacity were lower. On import direction, monthly auction price significantly increased compared with similar period of previous year, while offered capacity did not vary and requested capacity was lower.



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Border	Yearly	Jan. 20	Feb.20	Mar.20	Apr.20	May 20	Jun. 20	Jul. 20	Aug. 20	Sept. 20	Oct. 20	Nov.20	Dec. 20
Bulgaria export	0.77	0.71											
Bulgaria import	1.43	0.41											

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	0.35
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	0.51

- Compared with previous year, in January 2020 the auction price increased on export direction, while offered capacity and requested capacity were higher. The auction price significantly decreased on import direction, while offered capacity and requested capacity were higher.

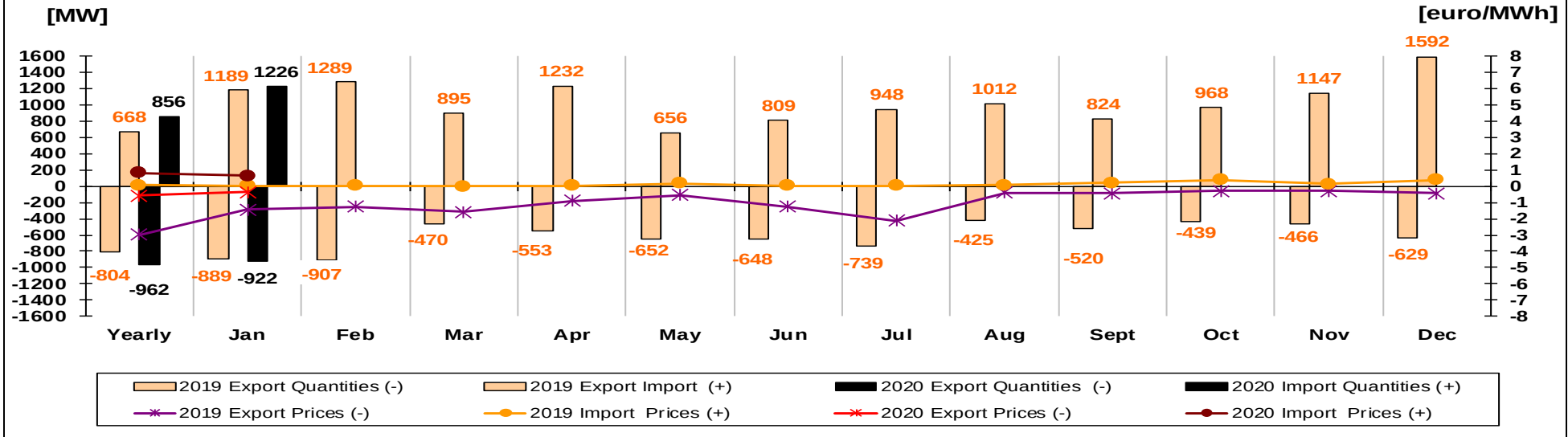


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Market for Allocation of Cross-Border Capacities

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



Border	Yearly	Jan. 20	Feb.20	Mar.20	Apr.20	May 20	Jun. 20	Jul. 20	Aug. 20	Sept. 20	Oct. 20	Nov.20	Dec. 20
Serbia export	0.56	0.36											
Serbia import	0.82	0.66											

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	0.43
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	0.41

- Compared with previous year, in January 2020 the auction price decreased on export direction, while offered capacity was lower and requested capacity was higher. In January 2020, monthly auction price increased on import direction, while offered capacity was lower and requested capacity was higher.

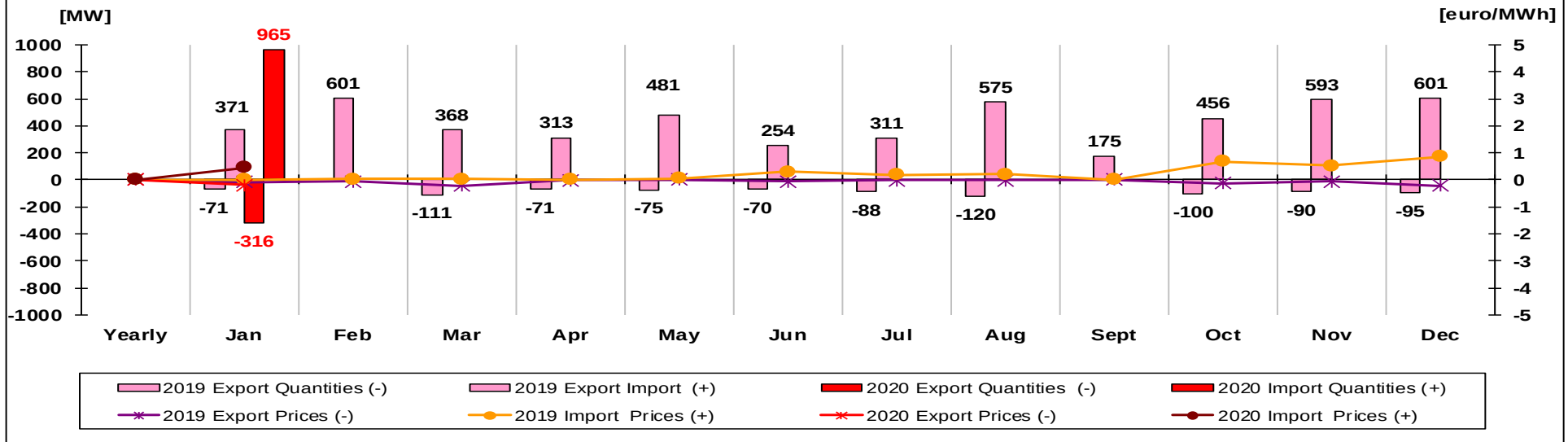


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Market for Allocation of Cross-Border Capacities

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

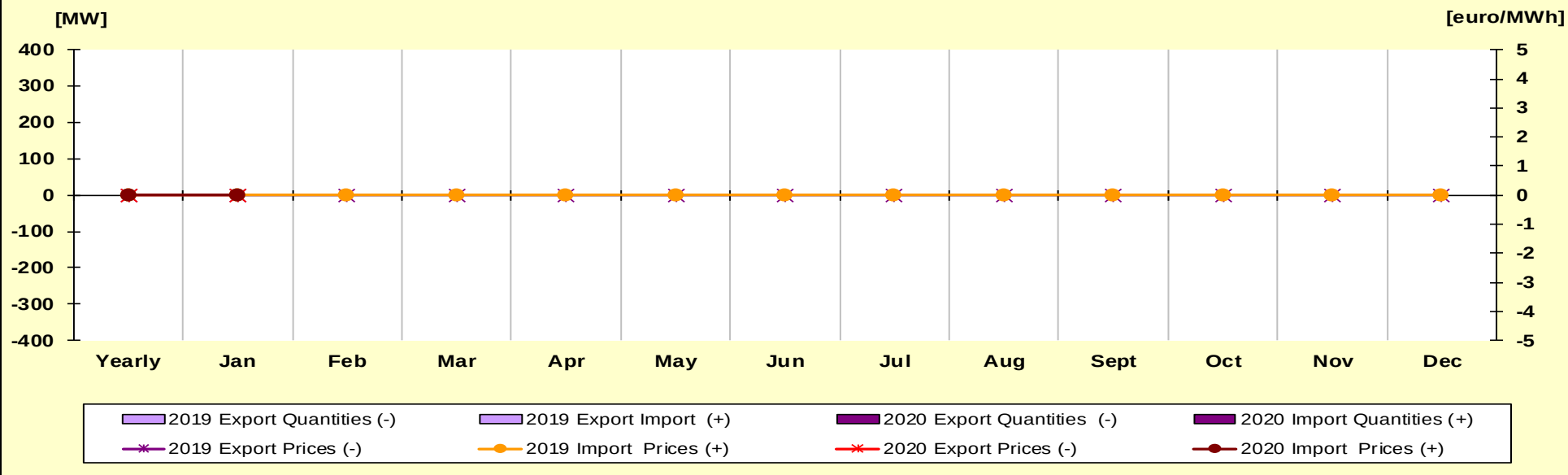


Border	Yearly	Jan. 20	Feb.20	Mar.20	Apr.20	May 20	Jun. 20	Jul. 20	Aug. 20	Sept. 20	Oct. 20	Nov.20	Dec. 20
Ukraine export	-	0.20											
Ukraine import	-	0.45											

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	0.21
Ukraine import	-	0.00	0.04	0.02	0.00	0.06	0.29	0.18	0.21	0.01	0.68	0.527	0.85

- Compared with previous year, in January 2020 the auction price increased on import direction, while the offered capacity did not vary, and the requested capacity was higher. On export direction, the auction price increased, while the offered capacity and requested capacity were higher.

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



Border	Yearly	Jan. 20	Feb.20	Mar.20	Apr.20	May 20	Jun. 20	Jul. 20	Aug. 20	Sept. 20	Oct. 20	Nov.20	Dec. 20
Moldavia export	-	-											
Moldavia import	-	-											

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	-	-	-	-	-	-	-	-	-	-	-	-	-

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
51	70	550	467



Hungary January 2020



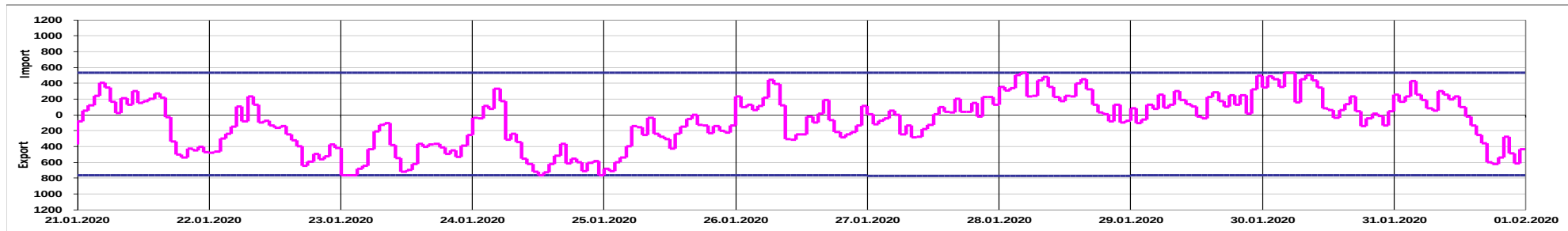
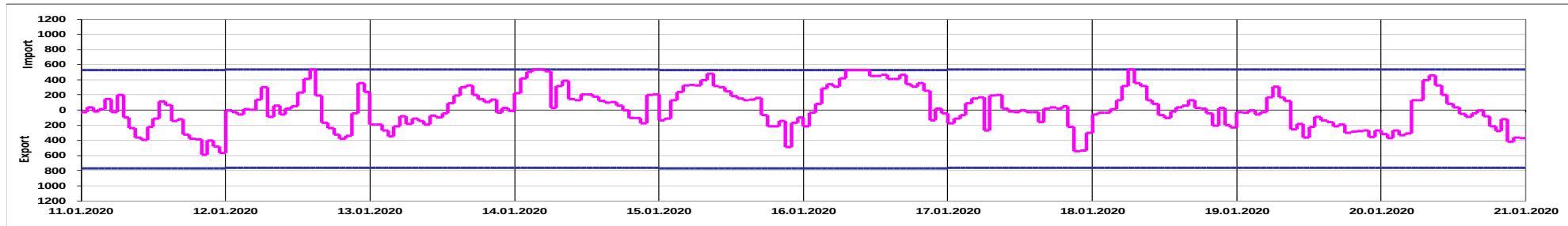
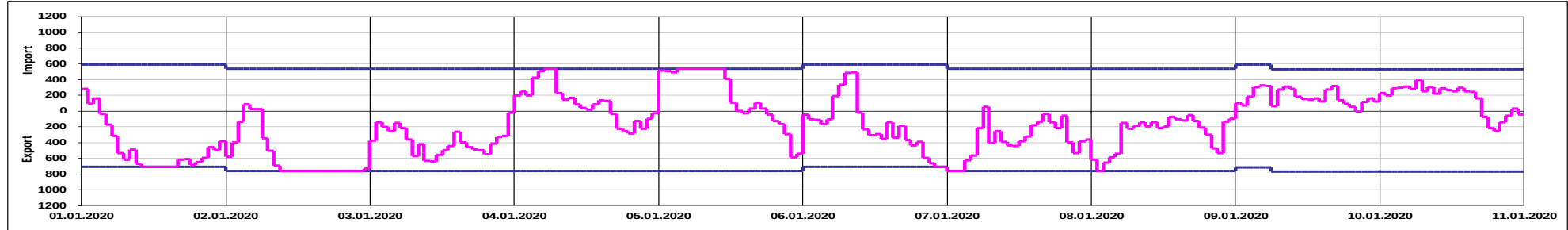


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Market for Allocation of Cross-Border Capacities

Daily implicit Auctions on Romanian – Hungarian border

Hungary January 2020



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	33.55	30.40	28.53	27.37	26.38	26.50	27.01	27.40	27.99	27.71	23.60	18.21	12.77	14.23	18.21	27.97	38.11	41.24	42.66	42.08	39.51	37.50	35.60	31.60	42.66
2	32.01	31.50	29.66	29.94	31.96	35.15	43.48	50.47	52.39	45.07	42.27	42.27	41.49	42.27	50.01	52.52	60.68	58.17	52.41	48.12	45.21	48.12	52.56	44.91	60.68
3	40.24	38.24	33.95	29.29	29.30	37.32	42.99	47.16	48.36	49.16	48.17	48.12	51.51	51.30	55.01	60.05	77.24	81.05	72.37	72.94	59.03	52.31	53.61	49.99	81.05
4	38.99	34.76	33.68	29.29	29.42	33.35	38.61	41.02	44.59	44.22	43.14	42.27	42.27	41.50	41.72	45.08	48.12	50.01	48.12	49.42	46.76	42.27	39.81	34.11	50.01
5	33.45	31.78	30.38	29.30	30.97	32.37	37.25	37.32	39.13	43.30	45.08	39.76	39.16	35.44	35.34	36.60	40.86	44.94	45.58	44.99	42.66	38.23	35.90	30.84	45.58
6	32.08	30.12	29.01	28.62	28.27	30.75	36.09	44.48	46.92	45.68	45.00	45.02	44.30	44.20	43.83	45.10	47.00	49.16	48.93	48.00	44.10	40.30	33.48	30.97	49.16
7	31.39	29.30	29.30	29.28	30.01	33.52	46.15	52.00	53.35	53.09	51.96	51.89	51.06	50.01	52.96	56.69	63.00	67.95	62.15	58.17	54.95	50.24	46.06	41.30	67.95
8	43.72	33.50	33.08	32.04	34.61	41.88	51.96	62.60	69.97	65.93	59.96	58.70	60.03	58.21	58.21	65.39	73.94	83.93	80.04	73.28	73.07	66.10	54.69	47.03	83.93
9	51.94	44.39	40.53	37.37	40.00	49.00	60.10	73.09	71.69	71.69	70.97	70.02	70.55	69.20	72.00	71.69	81.08	80.09	70.99	69.21	65.01	58.22	57.01	50.05	81.08
10	53.95	51.91	46.00	44.63	46.87	56.10	78.24	104.45	99.04	94.03	81.18	71.64	70.07	66.06	71.61	76.33	99.09	99.03	94.04	88.86	85.04	60.03	57.94	50.80	104.45
11	48.68	43.81	40.19	38.36	38.51	41.24	43.96	48.43	54.53	56.10	54.93	52.00	49.19	45.60	48.14	50.83	59.93	65.10	63.03	59.99	59.12	49.19	43.76	39.70	65.10
12	41.22	35.95	30.65	29.29	27.41	28.84	31.99	36.58	40.03	40.01	39.08	41.32	39.51	37.76	43.94	45.00	53.10	62.14	63.15	65.04	60.05	52.38	49.54	43.96	65.04
13	41.00	33.48	31.36	30.92	33.48	41.85	50.04	62.09	69.36	66.20	63.22	61.77	65.05	64.99	68.84	73.44	88.03	85.91	83.90	75.32	68.01	60.06	59.95	51.89	88.03
14	56.07	49.28	44.04	46.96	50.01	52.87	70.01	75.74	87.92	79.46	70.04	68.84	64.93	65.07	65.60	67.09	75.05	77.83	81.14	77.62	65.03	58.17	56.07	55.02	87.92
15	57.01	53.75	48.90	44.20	47.92	54.72	62.77	75.25	85.67	77.63	68.84	68.84	70.93	67.27	68.68	68.84	70.25	79.65	75.08	72.86	62.77	62.98	62.77	56.08	85.67
16	47.97	45.00	39.11	38.33	41.30	51.89	59.96	72.00	76.13	68.84	66.74	64.84	64.80	62.49	65.28	66.74	68.92	71.54	69.03	62.77	56.54	52.06	55.73	46.07	76.13
17	50.00	43.20	41.52	39.00	41.95	50.04	68.83	71.99	83.19	77.62	73.02	68.83	68.83	65.01	60.01	68.83	81.04	82.07	79.75	78.47	73.02	61.30	66.74	58.20	83.19
18	43.76	39.20	37.02	34.29	33.97	37.33	40.61	45.01	48.12	50.09	50.21	55.09	56.07	50.01	48.12	50.01	51.89	60.12	60.10	60.00	56.07	55.27	52.31	42.08	60.12
19	45.63	44.91	36.14	34.14	34.00	36.09	41.49	47.37	51.89	68.84	68.84	69.91	58.72	55.05	55.04	55.01	58.17	60.10	65.81	63.08	59.95	56.08	47.92	43.27	69.91
20	34.64	33.21	32.50	32.46	33.48	41.85	60.02	60.08	66.50	63.06	58.17	54.74	51.59	50.09	51.08	56.08	63.01	68.08	68.02	63.09	54.06	45.82	46.10	41.26	68.08
21	40.98	38.10	36.63	36.20	37.42	48.32	62.14	83.05	73.02	70.09	62.14	62.08	62.14	60.05	62.14	66.12	69.91	65.85	62.64	59.49	50.46	49.23	49.01	41.51	83.05
22	42.99	41.45	37.29	36.69	38.83	44.63	50.06	60.02	75.47	69.70	60.06	62.15	60.06	56.08	56.08	57.06	60.86	67.94	67.02	65.10	59.64	51.90	48.95	42.69	75.47
23	41.22	39.00	37.71	37.17	38.13	42.21	48.19	58.30	65.00	62.41	57.50	54.50	51.66	51.00	51.81	56.00	69.29	66.60	66.00	68.84	61.52	64.04	61.30	55.00	69.29
24	53.22	49.83	42.03	40.57	44.96	52.32	68.80	69.89	68.84	63.01	58.63	56.08	54.50	52.09	57.01	62.15	63.01	69.21	68.85	61.96	56.08	47.92	44.99	42.15	69.89
25	47.92	40.99	36.74	35.57	35.97	40.99	46.08	54.37	56.01	60.10	58.17	58.17	58.17	56.02	58.17	63.81	78.35	77.05	75.50	74.77	72.55	62.15	60.71	50.78	78.35
26	43.87	40.46	38.71	35.25	33.50	36.46	41.80	43.69	43.94	44.52	47.14	45.47	43.94	43.34	45.84	49.00	51.89	58.04	61.01	58.17	54.97	50.08	48.94	42.30	61.01
27	35.11	33.54	32.70	31.81	33.32	40.33	59.98	90.05	99.93	95.03	94.16	100.02	104.62	100.02	100.02	104.62	79.12	85.00	73.03	87.10	94.16	55.06	55.05	45.95	104.62
28	41.03	37.60	34.61	31.39	31.39	40.04	47.14	56.99	60.51	60.68	57.02	56.99	56.99	57.00	55.53	56.08	60.96	61.63	57.99	55.53	50.22	45.02	40.71	34.48	61.63
29	33.84	32.37	29.95	28.24	29.29	37.07	48.28	63.10	65.01	60.04	50.62	49.53	48.20	48.60	48.12	54.18	63.39	70.92	65.07	65.04	63.01	61.19	55.00	46.49	70.92
30	51.98	40.73	38.80	35.20	47.00	56.08	60.43	62.15	67.89	59.20	56.91	53.11	51.90	52.00	51.91	59.15	63.09	64.36	62.84	62.01	52.04	53.94	50.97	41.47	67.89
31	39.53	34.89	31.23	28.98	31.15	36.97	50.72	62.50	58.90	56.10	52.04	50.03	49.40	48.13	47.94	47.94	48.15	51.03	50.00	47.65	43.97	35.92	33.91	30.48	62.50

Average 52.80 EUR/MWh

Public

Market for Allocation of Cross-Border Capacities

Daily implicit Auctions on Romanian – Hungarian border

Congestion Prices [Euro/MWh]

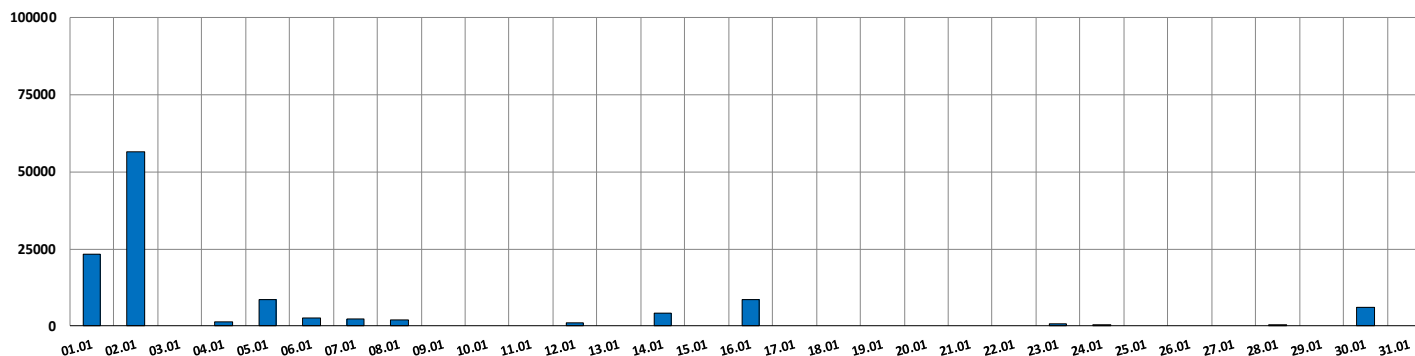
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max
1	-	-	-	-	-	-	-	-	-	-	4.80	10.77	16.73	15.20	12.30	5.35	-	-	-	-	-	-	-	-	16.73
2	-	-	-	-	-	-	-	-	-	8.83	10.23	10.26	11.02	7.81	0.09	9.42	9.06	15.80	25.51	18.78	12.37	8.42	-	-	25.51
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
4	-	-	-	-	-	1.41	3.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.65
5	-	-	-	1.36	3.76	4.33	7.24	5.62	1.34	3.16	5.27	-	-	-	-	-	-	-	-	-	-	-	-	-	7.24
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.16	2.45	5.16
7	1.95	2.65	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.65
8	-	5.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.00
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.20	-	-	-	-	-	-	-	-	-	4.20
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
14	-	-	-	7.87	8.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.29
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
16	-	-	-	-	-	-	-	13.99	12.01	3.67	2.34	-	-	-	-	-	-	-	-	-	-	-	-	-	13.99
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
23	0.40	0.76	0.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.79
24	-	-	-	-	-	-	-	-	-	-	-	-	0.51	-	-	-	-	-	-	-	-	-	-	0.61	0.61
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
28	-	-	-	-	0.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.45
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
30	-	-	-	-	10.46	11.94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.94
31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00

Average 6.94 EUR/MWh

Market for Allocation of Cross-Border Capacities

Daily implicit Auctions on Romanian – Hungarian border

Congestion Income RO



Daily Income [Euro]		Remuneration UIOSI [Euro]	
RO-HU	HU-RO	RO-HU	HU-RO
175414	59950	128992	51973
235364		180964	

TSO Income (Z-R) [Euro]	RO TSO Income (Z-R) [Euro]
54400	27200

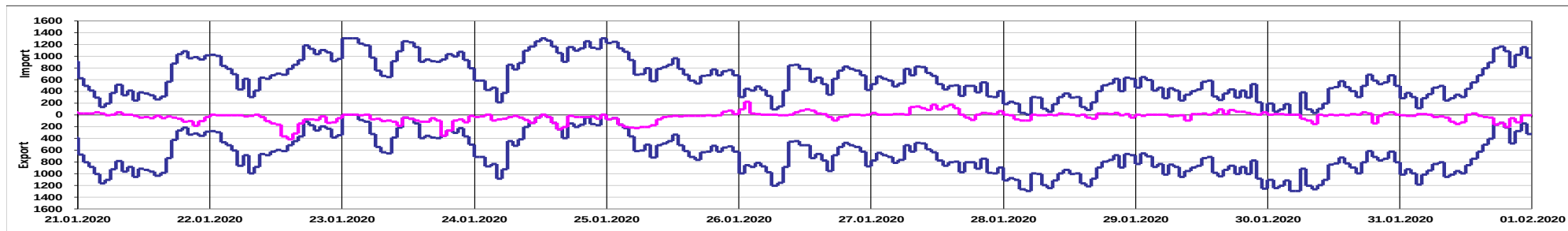
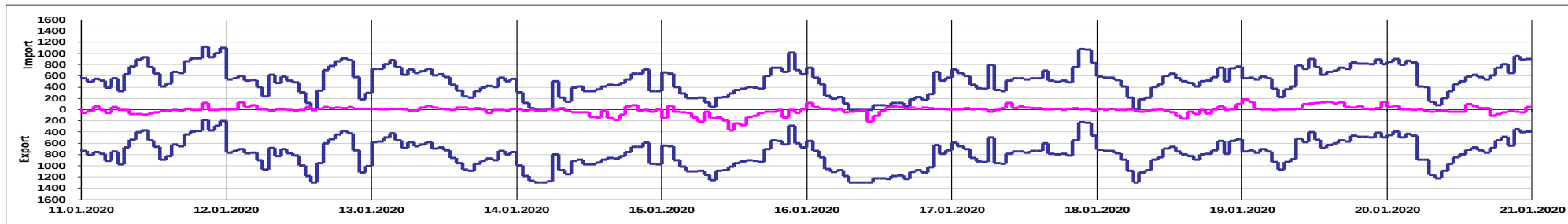
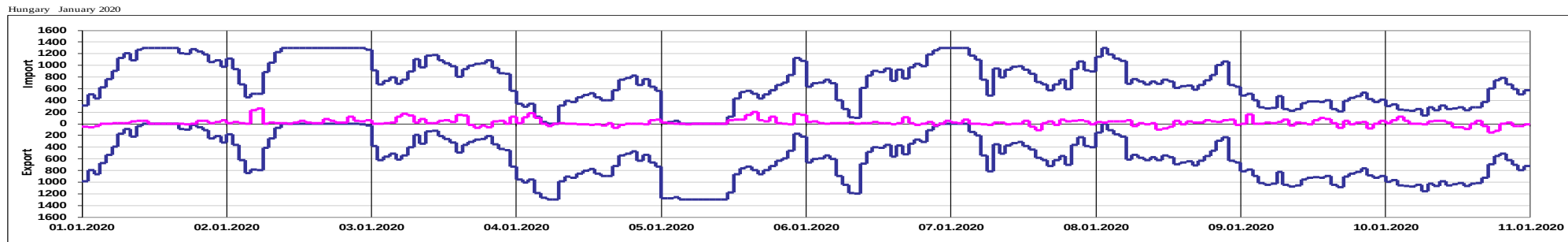
Day	Congestion Income border RO-HU [Euro]	Congestion Income RO [Euro]
01.01	46257	23128
02.01	112914	56457
03.01	0	0
04.01	2707	1354
05.01	17163	8581
06.01	5403	2702
07.01	4667	2333
08.01	3825	1913
09.01	0	0
10.01	0	0
11.01	0	0
12.01	2247	1124
13.01	0	0
14.01	8646	4323
15.01	0	0
16.01	16965	8483
17.01	0	0
18.01	0	0
19.01	0	0
20.01	0	0
21.01	0	0
22.01	0	0
23.01	1492	746
24.01	857	428
25.01	0	0
26.01	0	0
27.01	0	0
28.01	239	119
29.01	0	0
30.01	11984	5992
31.01	0	0
Total	235364	117682



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Market for Allocation of Cross-Border Capacities

Implicit Intraday Auctions on Romanian – Hungarian border



Offered Capacity on Intraday Auction [MW]
Net Position border RO - HU [MWh]

Public

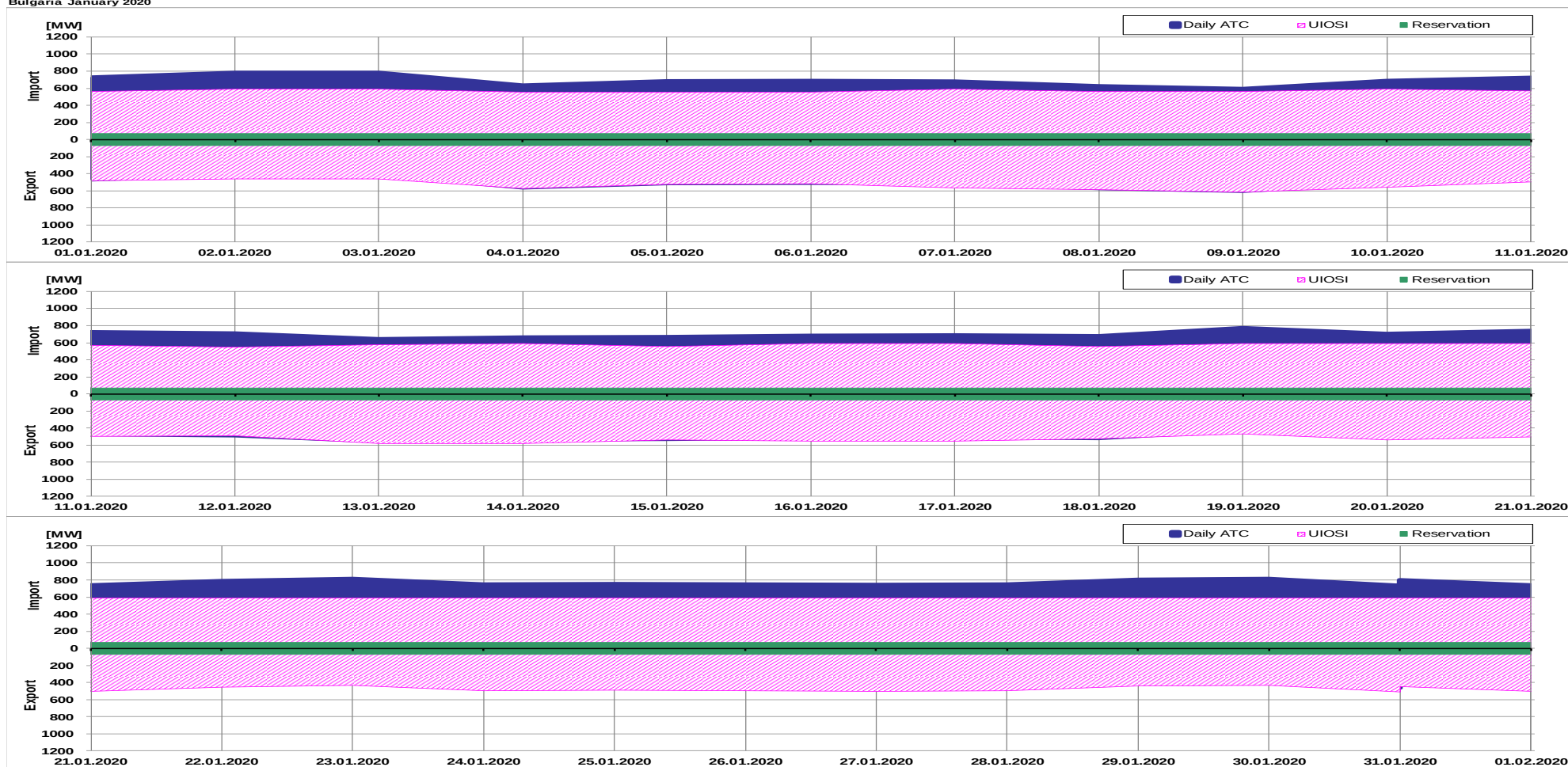
Market for Allocation of Cross-Border Capacities

Daily Auctions on Romanian – Bulgarian border

Reserved Capacity [MW] average value		Unused Capacity [MW] average value	
RO-BG	BG-RO	RO-BG	BG-RO
71	70	401	504



Bulgaria January 2020



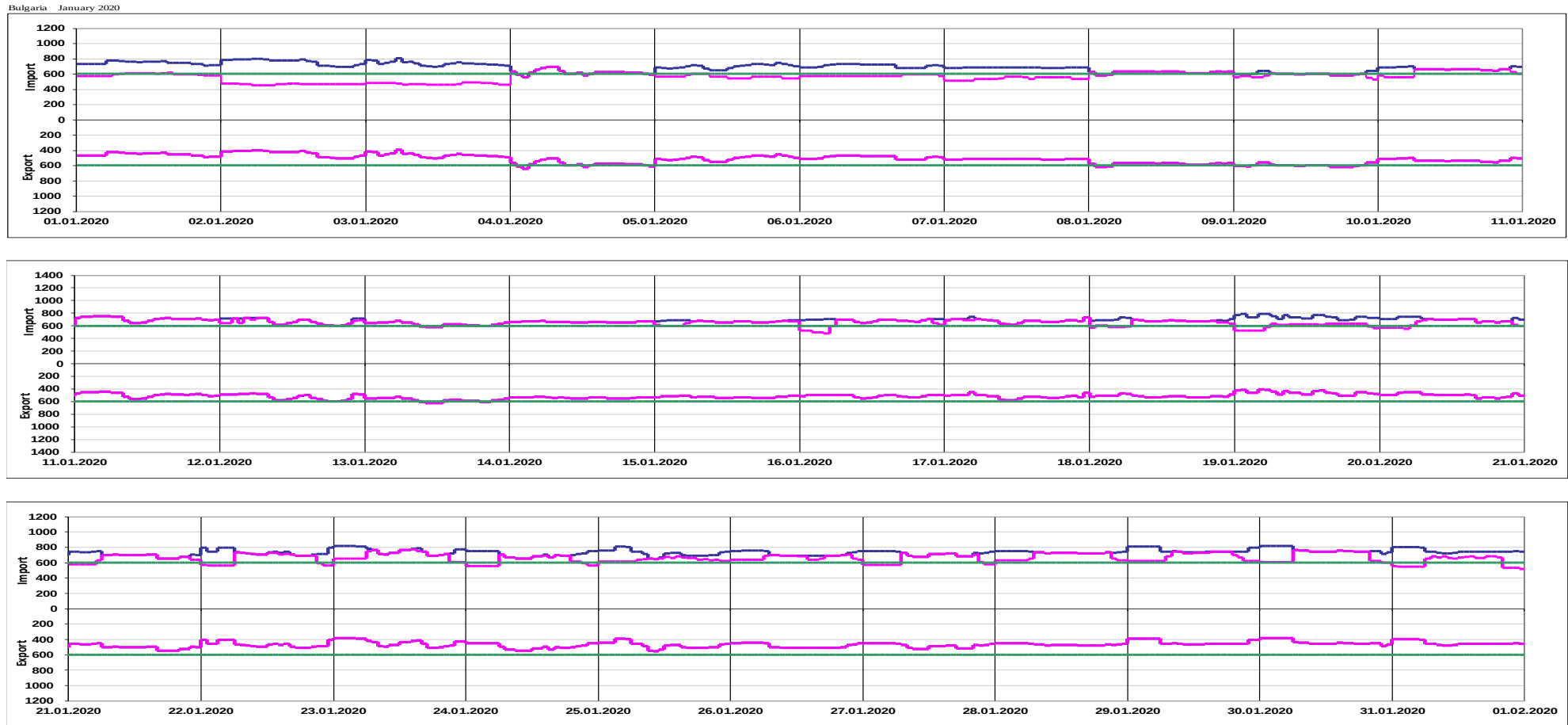


Transelectrica®

Societate Administrată în Sistem Dualist

Market for Allocation of Cross-Border Capacities

Daily Auctions on Romanian – Bulgarian border



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

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

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



Transelectrica®
Societate Administrată în Sistem Dualist

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	0.76	0.76	1.02	1.02	1.02	1.12	1.12	1.32	1.12	1.70	3.00	3.51	4.00	4.24	3.51	2.00	1.12	1.12	1.12	1.12	1.07	0.84	0.76	0.76	4.24
2	0.36	0.36	0.22	0.22	0.19	0.65	0.66	0.66	0.19	0.19	0.11	0.63	0.63	0.66	0.40	0.32	0.05	0.05	0.05	0.03	0.05	0.05	0.40	0.40	0.66
3	0.92	0.61	0.50	0.52	0.52	1.37	0.61	0.50	0.40	0.13	0.07	0.07	0.13	0.44	0.42	0.44	0.13	0.13	0.13	0.13	0.13	0.13	0.50	0.52	1.37
4	0.07	0.05	0.03	0.09	0.69	1.50	0.69	0.07	0.05	0.02	0.03	0.03	0.02	0.03	0.05	0.05	0.03	0.05	0.05	0.03	0.03	0.06	0.07	0.12	1.50
5	1.25	0.60	0.60	0.60	1.25	0.60	0.60	0.51	0.56	0.61	0.77	1.25	1.97	2.65	2.65	2.65	2.65	2.55	2.54	3.50	4.00	5.00	5.00	5.00	5.00
6	2.44	2.37	3.57	3.57	3.57	4.00	3.57	3.97	4.00	3.37	4.00	4.00	3.57	3.57	3.57	2.00	0.70	0.70	0.70	0.70	0.77	2.18	2.18	3.00	4.00
7	0.62	0.44	0.44	0.44	0.62	1.01	0.88	0.55	0.35	0.35	0.25	0.35	0.35	0.35	0.36	0.41	0.38	0.35	0.29	0.29	0.29	0.36	0.55	0.55	1.01
8	0.25	0.10	0.10	0.14	0.40	0.66	0.22	0.17	0.17	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.10	0.11	0.17	0.19	0.19	0.34	0.66
9	0.51	0.70	0.70	0.76	2.50	2.37	0.76	0.51	0.36	0.11	0.11	0.11	0.18	0.18	0.18	0.36	0.18	0.11	0.06	0.06	0.11	0.70	0.77	0.76	2.50
10	1.65	1.75	1.22	1.88	3.51	3.89	1.01	0.55	0.40	0.40	0.40	0.21	0.40	0.40	0.40	0.51	0.40	0.36	0.06	0.06	0.76	1.65	1.11	1.75	3.89
11	1.54	2.00	2.00	2.00	2.00	2.00	1.25	0.36	0.18	0.11	0.11	0.11	0.18	0.33	0.33	0.33	0.33	0.33	0.33	0.16	0.76	1.25	1.69	2.00	2.00
12	3.51	3.51	3.51	3.51	3.53	4.00	3.51	3.33	0.55	0.55	0.55	0.55	0.55	1.87	2.69	0.75	0.13	0.10	0.10	0.10	0.10	0.20	0.27	0.89	4.00
13	0.80	0.80	0.80	3.51	4.00	4.00	0.80	0.62	0.27	0.25	0.19	0.19	0.19	0.27	0.27	0.38	0.18	0.18	0.18	0.13	0.19	0.27	0.38	0.56	4.00
14	0.33	0.45	0.45	0.76	1.64	0.45	0.13	0.18	0.18	0.13	0.09	0.08	0.09	0.13	0.13	0.18	0.09	0.09	0.09	0.09	0.08	0.18	0.29	0.27	1.64
15	0.34	0.34	0.36	0.36	0.36	0.21	0.12	0.12	0.12	0.12	0.12	0.09	0.09	0.12	0.12	0.12	0.08	0.08	0.08	0.08	0.09	0.12	0.36	0.36	0.36
16	0.12	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.18	0.12	0.12	0.12	0.12	0.36	0.36	0.36	0.12	0.12	0.12	0.12	0.12	0.12	0.36	0.36	0.36
17	0.05	0.05	0.05	0.05	0.11	0.06	0.03	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.04	0.03	0.06	0.11
18	0.08	0.08	0.08	0.08	0.18	0.66	0.08	0.08	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	0.05	0.08	0.66
19	1.20	1.61	0.66	0.66	1.20	1.61	1.20	0.32	2.01	1.66	1.35	1.13	1.13	1.61	1.61	1.20	0.22	0.11	0.11	0.15	0.18	0.32	0.38	1.20	2.01
20	0.44	0.44	0.44	1.33	1.33	2.89	0.44	0.32	0.32	0.32	0.32	0.32	0.18	0.18	0.32	0.32	0.15	0.15	0.15	0.15	0.17	0.32	0.69	0.69	2.89
21	2.00	1.00	0.99	1.61	2.00	1.61	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.17	0.22	0.08	0.08	0.08	0.08	0.44	1.00	2.00	3.00	3.00
22	3.15	1.86	2.05	3.50	3.51	2.41	0.76	0.95	0.79	0.76	0.76	0.76	0.76	1.00	1.51	1.51	0.95	0.76	0.76	0.76	1.51	2.01	3.00	4.15	4.15
23	2.00	2.00	2.00	2.00	2.00	3.52	1.20	1.20	0.26	0.25	0.26	0.26	0.26	0.26	0.33	0.33	0.26	0.22	0.22	0.22	0.25	0.38	0.90	2.00	3.52
24	1.69	0.77	1.00	2.12	1.69	2.30	0.43	0.28	0.28	0.22	0.10	0.10	0.14	0.20	0.37	0.37	0.33	0.28	0.41	0.52	0.41	0.53	2.30	2.00	2.30
25	3.00	3.00	2.38	5.01	5.00	3.55	1.69	0.95	0.52	0.33	0.26	0.30	0.35	0.37	0.52	0.52	0.52	0.30	0.30	0.30	0.33	0.53	0.76	0.95	5.01
26	1.15	1.80	1.85	1.85	1.85	1.85	0.33	0.22	0.22	0.11	0.11	0.11	0.26	0.33	0.26	0.33	0.33	0.11	0.11	0.11	0.26	0.92	0.92	1.00	1.85
27	3.00	2.88	2.00	2.70	2.80	3.00	0.44	0.33	0.33	0.15	0.15	0.15	0.20	0.20	0.33	0.36	0.33	0.16	0.16	0.33	0.44	0.69	1.01	2.10	3.00
28	0.50	0.50	0.50	0.72	1.00	0.65	0.22	0.23	0.23	0.22	0.22	0.18	0.18	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.36	0.36	0.36	1.00	1.00
29	3.51	3.51	3.51	5.67	7.23	5.67	0.88	0.88	0.88	0.88	0.88	0.68	0.68	0.68	0.68	0.88	0.88	0.68	0.68	0.88	0.88	0.88	3.00	7.23	7.23
30	3.01	3.01	3.61	5.00	6.00	5.00	0.56	0.36	0.36	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.36	0.66	0.66	1.00	6.00
31	5.00	5.00	5.00	5.50	6.57	7.11	2.03	1.00	0.88	0.66	0.61	0.61	0.77	0.77	0.88	1.89	1.00	1.00	0.88	1.00	1.00	3.25	4.66	5.00	7.11

Bulgaria

January 2020

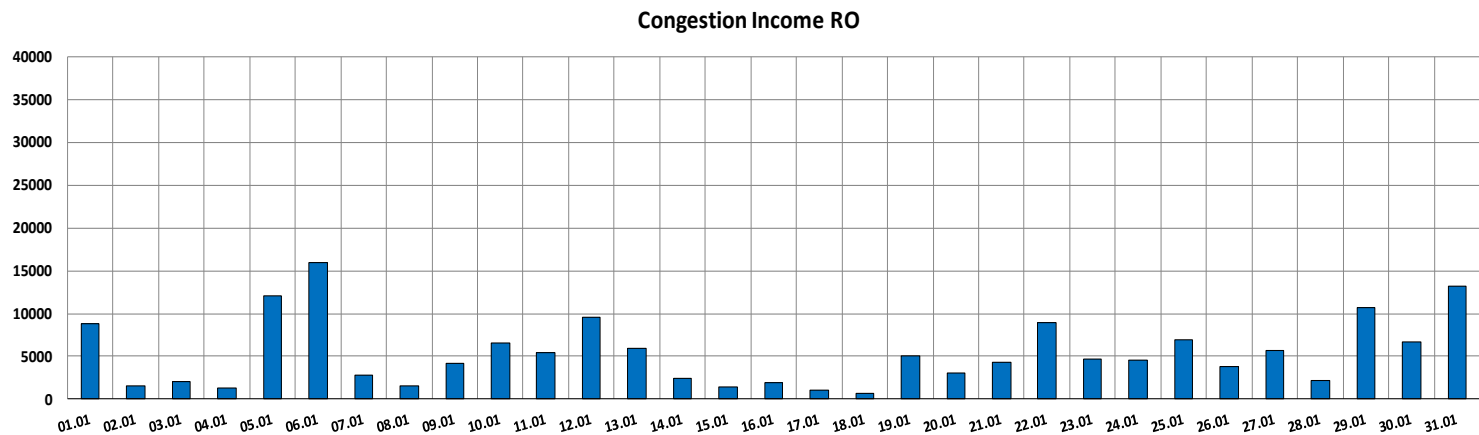
Daily Auctions on Romanian – Bulgarian border

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.02	0.02	0.05	0.05	0.05	0.05	0.05	0.03	0.03	0.03	0.05	0.05	0.02	0.02	0.02	0.02	0.02	0.02
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	0.02	0.05	0.05	0.03	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.05	0.05	0.05	0.05	0.05	0.03	0.03	0.02	0.02	0.05
9	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.05	0.06	0.12	0.18	0.18	0.12	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.00	0.00	0.18
10	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.05	0.05	0.05	0.05	0.05	0.03	0.00	0.00	0.05
11	0.01	0.01	0.01	0.01	0.00	0.02	0.03	0.03	0.06	0.06	0.06	0.06	0.06	0.05	0.03	0.03	0.03	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06
12	0.00	0.00	0.01	0.00	0.01	0.00	0.01	0.03	0.01	0.05	0.02	0.02	0.01	0.01	0.01	0.01	0.02	0.03	0.03	0.03	0.03	0.02	0.00	0.00	0.05
13	0.01	0.01	0.01	0.01	0.01	0.02	0.06	0.12	0.12	0.12	0.12	0.15	0.15	0.12	0.12	0.12	0.12	0.12	0.06	0.06	0.06	0.06	0.06	0.06	0.15
14	0.01	0.01	0.01	0.01	0.01	0.03	0.12	0.28	0.16	0.16	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.06	0.06	0.02	0.03	0.28
15	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.06	0.06	0.05	0.06	0.06	0.06	0.05	0.05	0.05	0.06	0.06	0.06	0.05	0.05	0.05	0.00	0.00	0.06
16	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.05	0.05	0.15	0.22	0.22	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.03	0.00	0.00	0.22
17	0.00	0.01	0.01	0.00	0.00	0.02	0.06	0.13	0.13	0.22	0.37	0.37	0.16	0.16	0.13	0.13	0.13	0.13	0.13	0.12	0.06	0.12	0.04	0.02	0.37
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.03
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	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.02
21	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.01	0.01	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
22	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01
23	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	0.00	0.00	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	0.02	0.03	0.03	0.05	0.03	0.03	0.02	0.02	0.00	0.03	0.02	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.05
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02
26	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	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.01
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.02
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.00	0.00	0.00	0.02
29	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	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01
30	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.05	0.08	0.13	0.04	0.05	0.05	0.05	0.03	0.03	0.04	0.04	0.04	0.02	0.00	0.00	0.00	0.00	0.13
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 January 2020

Daily Allocation on Romanian – Bulgarian border



Daily Income [Euro]		Remuneration UIOSI [Euro]	
RO-BG	BG-RO	RO-BG	BG-RO
319253	10360	255936	7764
329614		263700	

TSO Income (Z-R) [Euro]	RO TSO Income (Z-R) [Euro]
65914	32957

Day	Congestion Income border RO-BG [Euro]	Congestion Income RO [Euro]
01.01	17502	8751
02.01	3194	1597
03.01	4199	2100
04.01	2530	1265
05.01	24123	12061
06.01	31985	15992
07.01	5563	2782
08.01	3005	1503
09.01	8393	4196
10.01	13093	6547
11.01	10864	5432
12.01	19120	9560
13.01	11816	5908
14.01	4933	2467
15.01	2859	1430
16.01	3739	1870
17.01	2099	1050
18.01	1244	622
19.01	10190	5095
20.01	5993	2997
21.01	8492	4246
22.01	17967	8984
23.01	9315	4658
24.01	8982	4491
25.01	13826	6913
26.01	7588	3794
27.01	11321	5660
28.01	4320	2160
29.01	21454	10727
30.01	13479	6740
31.01	26424	13212
Total	329614	164807



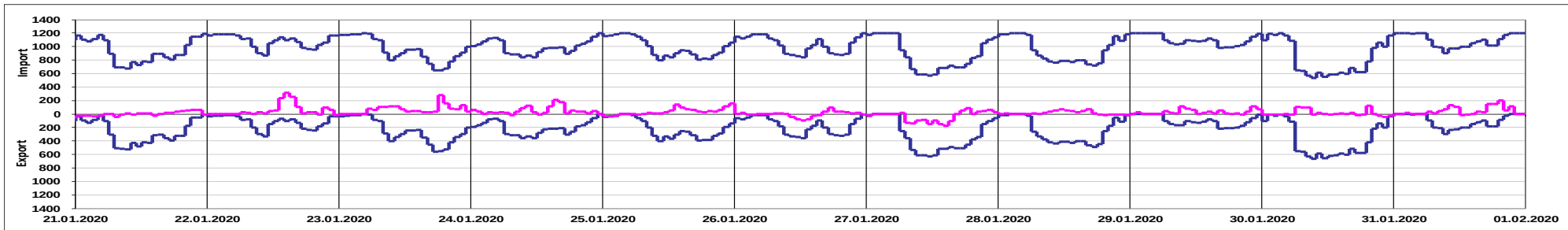
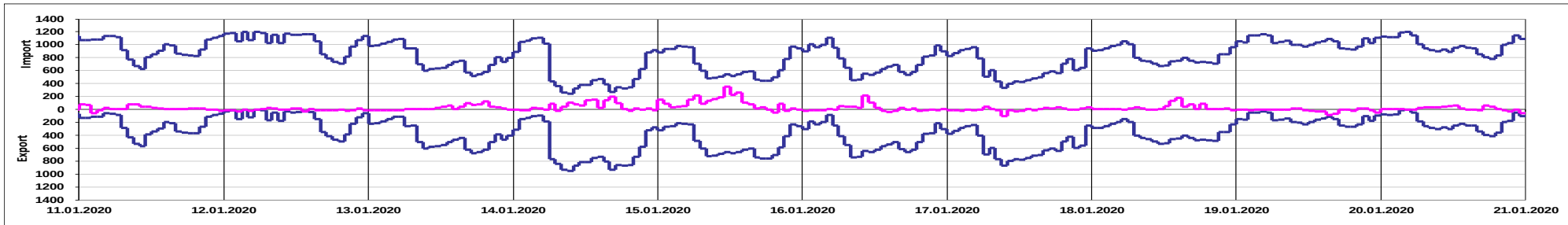
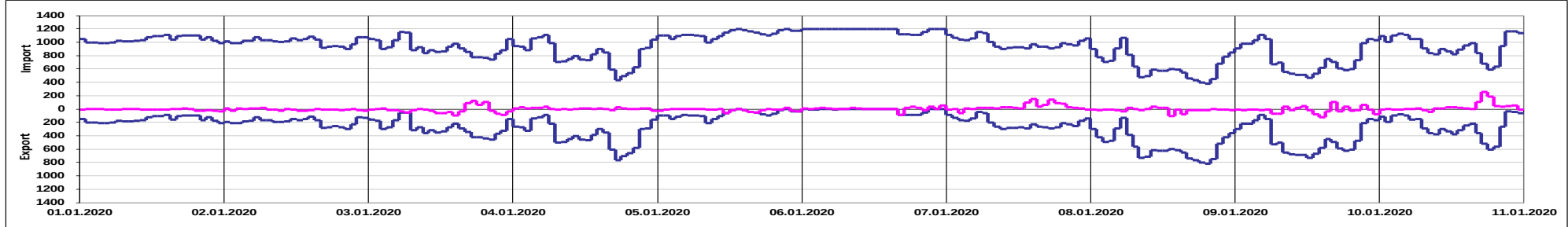
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Societate Administrată în Sistem Dualist

Market for Allocation of Cross-Border Capacities

Implicit Intraday Auctions on Romanian – Bulgarian border

Bulgaria January 2020



Offered Capacity on Intraday Auction [MW]

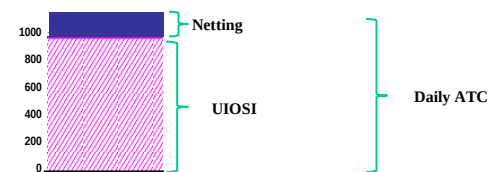
Net Position border RO - BG [MWh]

Public

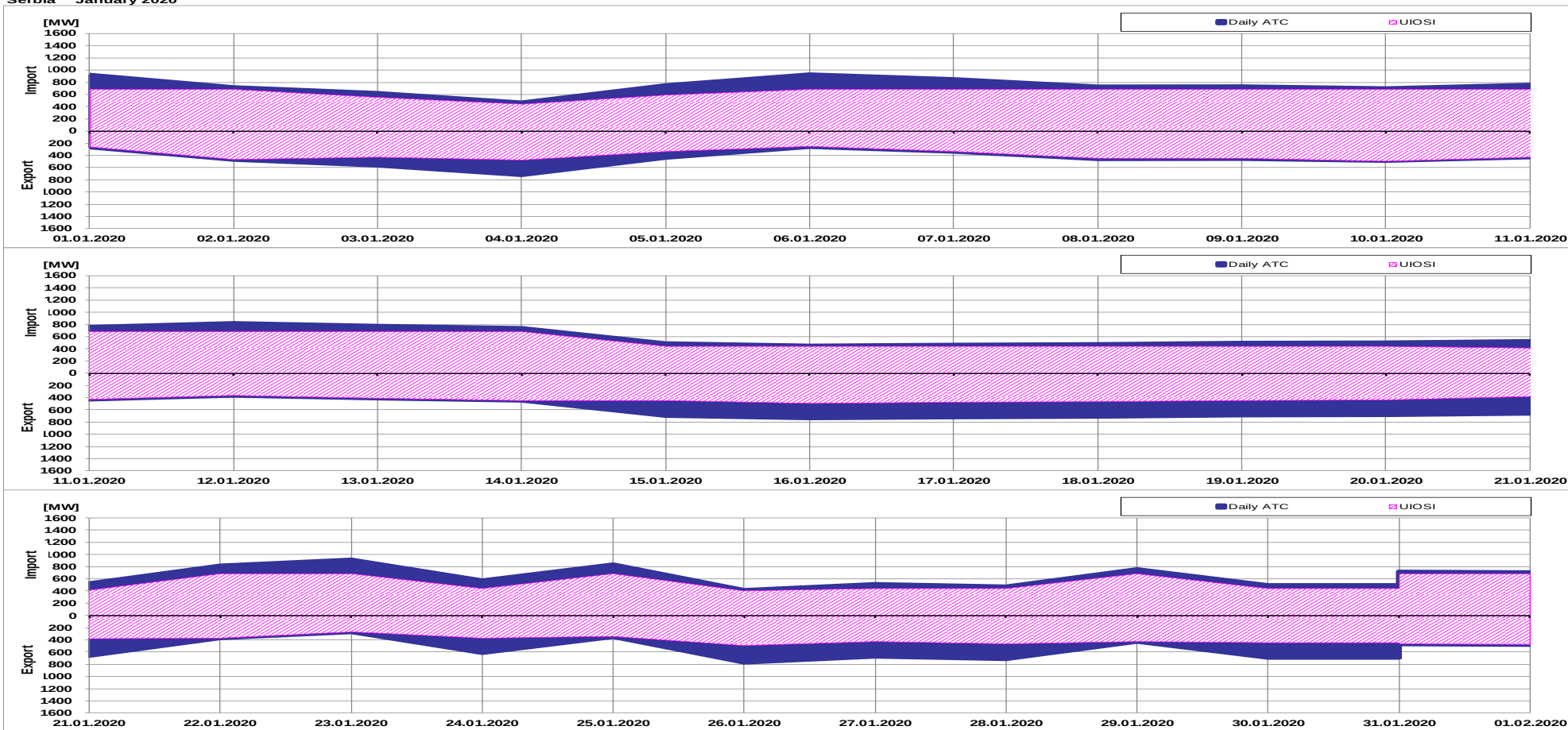
Market for Allocation of Cross-Border Capacities

Daily Auctions on Romanian – Serbian border

Unused Capacity [MW] average value	
RO-RS	RS-RO
426	509



Serbia January 2020

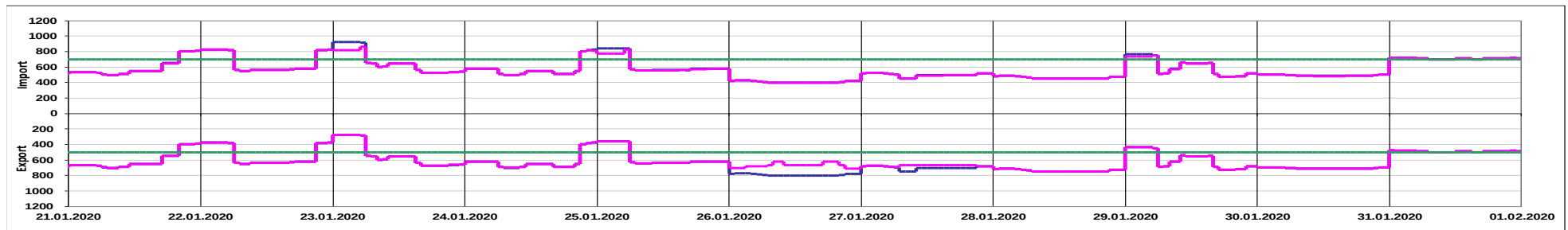
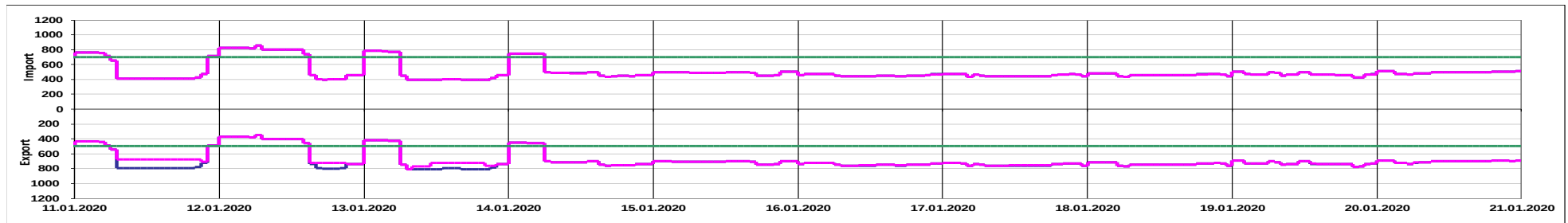
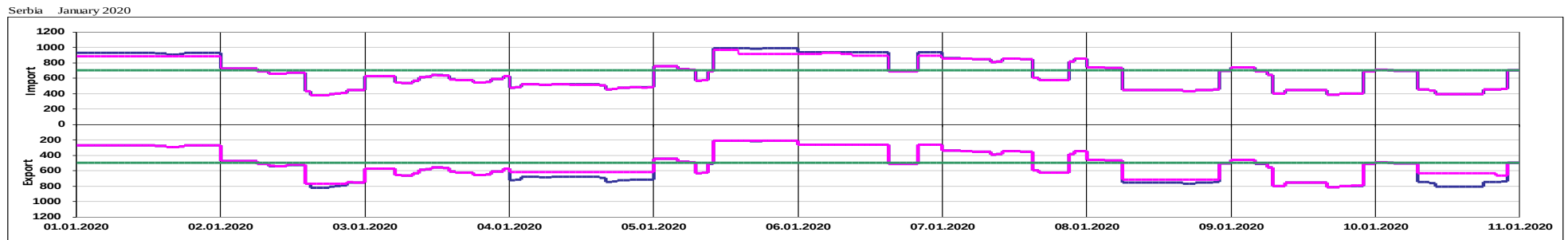




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Market for Allocation of Cross-Border Capacities

Daily Auctions on Romanian – Serbian border



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	2.50	2.50	2.50	2.50	2.50	2.50	2.56	2.56	2.56	3.13	5.00	8.44	8.99	5.92	3.50	3.13	2.50	2.50	2.50	2.50	2.40	2.03	4.00	3.07	8.99
2	0.20	0.21	0.21	0.20	0.20	0.12	0.08	0.08	0.06	0.06	0.06	0.06	0.06	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.03	0.21
3	0.11	0.11	0.11	0.11	0.11	0.08	0.06	0.06	0.08	0.12	0.13	0.13	0.13	0.13	0.09	0.08	0.06	0.06	0.06	0.06	0.06	0.08	0.08	0.11	0.13
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	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.06	0.06	0.06	0.44	1.12	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	3.00	7.00	7.00	7.00	7.00
6	2.70	2.70	5.51	5.51	5.51	2.60	2.55	1.50	1.50	1.50	1.50	1.50	2.10	2.10	1.51	0.26	0.26	0.26	0.26	0.26	1.76	2.17	1.86	2.60	5.51
7	0.88	0.88	0.88	0.88	0.88	0.88	0.66	0.66	0.44	0.55	0.66	0.66	0.66	0.66	0.66	0.15	0.12	0.12	0.12	0.12	0.10	0.55	0.66	0.66	0.88
8	0.12	0.12	0.12	0.12	0.12	0.10	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	0.10	0.10	0.10	0.12
9	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.05	0.06
10	0.03	0.06	0.06	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	0.06	0.06	0.06
11	0.28	0.25	0.25	0.18	0.18	0.12	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	0.13	0.13	0.28
12	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.25	0.23	0.23	0.23	0.22	0.22	0.22	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.33
13	0.28	0.25	0.25	0.25	0.25	0.25	0.03	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	0.01	0.01	0.28
14	0.38	0.38	0.52	0.52	0.46	0.25	0.06	0.06	0.05	0.05	0.05	0.03	0.03	0.03	0.03	0.01	0.01	0.01	0.01	0.01	0.03	0.03	0.05	0.05	0.52
15	0.10	0.10	0.12	0.12	0.12	0.08	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.06	0.06	0.07	0.07	0.12
16	0.07	0.07	0.07	0.07	0.07	0.07	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	0.05	0.05	0.05	0.07	0.07	0.07
17	0.21	0.21	0.21	0.21	0.15	0.14	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.05	0.03	0.21
18	0.14	0.14	0.14	0.14	0.14	0.08	0.03	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	0.07	0.09	0.06	0.14
19	0.09	0.09	0.06	0.06	0.06	0.06	0.06	0.03	0.03	0.03	0.03	0.05	0.05	0.09	0.06	0.06	0.06	0.05	0.05	0.05	0.03	0.09	0.11	0.15	0.15
20	0.29	0.29	0.29	0.24	0.24	0.24	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.24	0.24	0.24	0.24	0.48	0.60	0.60	0.60
21	0.51	0.47	0.51	0.51	0.51	0.51	0.11	0.11	0.11	0.11	0.11	0.20	0.20	0.20	0.20	0.20	0.20	0.22	0.33	0.33	1.05	1.86	2.00	2.00	2.00
22	1.09	1.09	1.24	1.24	1.09	0.87	0.23	0.20	0.20	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.33	0.43	0.48	1.27	1.73	1.99	1.99
23	1.05	1.05	1.26	1.26	1.11	1.00	0.22	0.22	0.18	0.18	0.20	0.20	0.20	0.20	0.20	0.12	0.09	0.09	0.12	0.12	0.12	0.18	0.18	0.20	1.26
24	0.30	0.10	0.10	0.10	0.10	0.07	0.02	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.05	0.05	0.09	0.38	0.38	0.38	0.38
25	1.11	1.11	1.11	1.11	1.11	1.11	0.17	0.15	0.12	0.12	0.15	0.15	0.15	0.15	0.15	0.09	0.08	0.08	0.08	0.08	0.12	0.17	0.17	0.17	1.11
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	0.06	0.06	0.06	0.06	0.06	0.06	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	0.01	0.01	0.01	0.06
28	0.23	0.23	0.23	0.23	0.22	0.21	0.12	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.07	0.07	0.07	0.07	0.07	0.08	0.12	0.12	0.12	0.23
29	0.88	0.88	0.88	0.88	0.88	0.66	0.15	0.10	0.11	0.15	0.30	0.30	0.15	0.15	0.15	0.21	0.09	0.11	0.11	0.11	0.11	0.30	0.44	0.48	0.88
30	0.10	0.10	0.10	0.10	0.09	0.05	0.05	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	0.05	0.05	0.05	0.10
31	0.86	0.86	0.86	0.86	0.76	0.52	0.44	0.35	0.35	0.35	0.35	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.53	0.53	0.86	0.86

Serbia January 2020



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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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.09	0.09	0.09	0.09	0.12	0.36	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.66	0.66	0.66	0.66	0.55	0.55	0.55	0.50	0.44	0.44	0.66
3	0.32	0.32	0.40	0.40	0.40	0.44	0.44	0.50	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.50	0.76	0.76	0.76	0.82	0.82	0.50	0.44	0.40	0.82
4	0.76	0.76	0.66	0.66	0.77	0.97	1.89	2.20	2.20	1.25	1.12	1.12	1.12	1.12	1.12	1.12	2.55	2.55	2.55	2.20	2.20	0.92	0.76	0.76	2.55
5	0.06	0.06	0.06	0.06	0.07	0.09	0.09	0.25	0.25	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
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	0.04	0.04	0.04	0.04	0.04	0.00	0.00	0.00	0.00	0.04
7	0.03	0.03	0.03	0.03	0.03	0.03	0.06	0.03	0.03	0.03	0.01	0.01	0.01	0.03	0.03	0.39	0.57	0.57	0.57	0.57	0.45	0.03	0.01	0.01	0.57
8	0.33	0.33	0.33	0.33	0.33	0.35	1.50	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.88	1.40	1.40	1.50	1.50	1.50	1.35	0.82	0.44	0.44	1.50
9	0.13	0.13	0.13	0.13	0.15	0.44	0.84	2.50	2.50	2.20	2.00	2.00	1.50	1.50	1.56	1.56	2.00	3.00	2.56	2.50	2.50	0.62	0.23	0.23	3.00
10	0.09	0.09	0.09	0.09	0.09	0.14	0.39	0.92	0.92	0.94	0.78	0.53	0.53	0.53	0.53	0.53	0.55	0.55	0.31	0.24	0.24	0.24	0.07	0.06	0.94
11	0.23	0.23	0.23	0.23	0.26	0.55	0.70	1.16	1.16	1.16	1.43	0.76	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.41	0.32	0.17	0.13	1.43
12	0.10	0.10	0.10	0.10	0.10	0.11	0.10	0.11	0.11	0.11	0.13	0.13	0.13	0.13	0.15	0.99	3.00	5.00	5.00	5.00	5.00	1.56	0.31	0.31	5.00
13	0.20	0.20	0.20	0.20	0.20	0.20	0.78	1.00	1.10	1.00	1.00	1.00	1.00	1.00	1.00	1.32	1.50	1.32	1.32	1.32	1.50	1.00	0.56	0.56	1.50
14	0.12	0.12	0.12	0.13	0.13	0.41	0.80	0.88	0.80	0.80	0.66	0.66	0.66	0.66	0.80	0.80	0.80	0.80	0.80	0.70	0.69	0.66	0.32	0.32	0.88
15	0.20	0.20	0.20	0.20	0.39	0.92	0.92	0.92	0.92	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.44	0.35	0.33	0.18	0.18	0.92
16	0.21	0.20	0.20	0.20	0.20	0.31	0.45	0.88	0.88	0.61	0.56	0.56	0.56	0.45	0.45	0.45	0.47	0.33	0.25	0.25	0.25	0.21	0.12	0.12	0.88
17	0.20	0.20	0.17	0.17	0.20	0.36	0.61	0.66	0.61	0.61	0.61	0.46	0.37	0.37	0.37	0.37	0.47	0.37	0.37	0.37	0.35	0.35	0.13	0.14	0.66
18	0.15	0.15	0.15	0.17	0.17	0.25	0.93	0.52	0.52	0.52	0.38	0.33	0.31	0.31	0.31	0.31	0.39	0.38	0.33	0.33	0.23	0.23	0.17	0.23	0.93
19	0.11	0.11	0.12	0.12	0.12	0.22	0.18	0.18	0.19	0.18	0.18	0.15	0.12	0.15	0.18	0.15	0.25	0.25	0.25	0.25	0.15	0.12	0.11	0.11	0.25
20	0.12	0.12	0.12	0.20	0.20	0.22	0.17	0.15	0.15	0.12	0.12	0.12	0.15	0.15	0.15	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.22
21	0.12	0.12	0.12	0.12	0.12	0.12	0.32	0.66	0.66	0.33	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.66
22	0.11	0.11	0.11	0.11	0.11	0.11	0.20	0.20	0.14	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.09	0.09	0.09	0.20
23	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.07	0.21	0.21	0.21	0.21	0.26	0.15	0.15	0.15	0.26
24	0.09	0.09	0.09	0.09	0.09	0.09	0.17	0.20	0.20	0.20	0.12	0.09	0.09	0.09	0.09	0.12	0.26	0.26	0.26	0.26	0.21	0.03	0.01	0.00	0.26
25	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.14	0.14	0.14	0.09	0.09	0.09	0.09	0.09	0.14	0.36	0.36	0.36	0.36	0.29	0.22	0.14	0.14	0.36
26	0.22	0.22	0.22	0.22	0.22	0.22	0.14	0.14	0.21	0.21	0.12	0.12	0.12	0.12	0.12	0.14	0.36	0.36	0.36	0.36	0.36	0.23	0.22	0.22	0.36
27	0.09	0.09	0.09	0.09	0.09	0.17	0.22	0.44	0.44	0.44	0.22	0.22	0.44	0.44	0.44	0.77	0.56	0.56	0.56	0.44	0.44	0.22	0.14	0.14	0.77
28	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.15	0.15	0.15	0.15	0.15	0.22	0.26	0.28	0.28	0.22	0.22	0.18	0.11	0.11	0.28
29	0.00	0.00	0.00	0.00	0.00	0.01	0.18	0.18	0.15	0.15	0.11	0.12	0.12	0.12	0.12	0.12	0.22	0.22	0.22	0.31	0.29	0.29	0.15	0.15	0.31
30	0.12	0.12	0.12	0.12	0.12	0.15	0.31	0.31	0.31	0.31	0.22	0.22	0.22	0.22	0.22	0.22	0.31	0.31	0.31	0.45	0.44	0.23	0.15	0.15	0.45
31	0.06	0.06	0.06	0.06	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.09	0.11	0.15

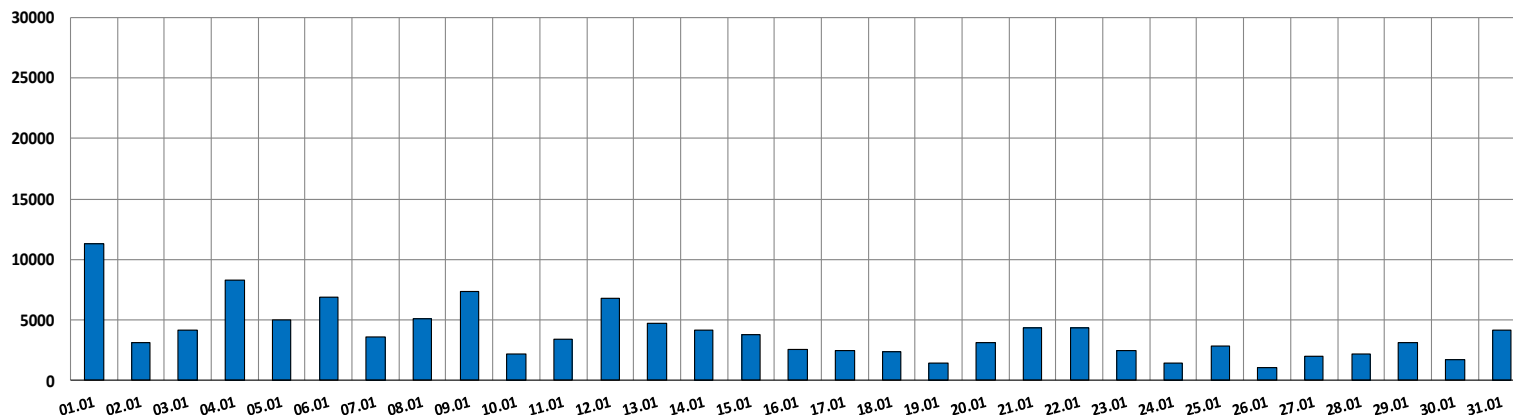
Serbia

January 2020

Market for Allocation of Cross-Border Capacities

Daily Allocation on Romanian – Serbian border

Congestion Income RO



Daily Income [Euro]		Remuneration UIOSI [Euro]	
RO-RS	RS-RO	RO-RS	RS-RO
104144	139088	89920	129873
243232		219793	

TSO Income (Z-R) [Euro]	RO TSO Income (Z-R) [Euro]
23438	11719

Day	Congestion Income border RO-RS [Euro]	Congestion Income RO [Euro]
01.01	22681	11340
02.01	6187	3094
03.01	8378	4189
04.01	16517	8259
05.01	9964	4982
06.01	13762	6881
07.01	7135	3568
08.01	10288	5144
09.01	14722	7361
10.01	4455	2227
11.01	6839	3419
12.01	13632	6816
13.01	9377	4689
14.01	8269	4135
15.01	7558	3779
16.01	5164	2582
17.01	4939	2470
18.01	4714	2357
19.01	2943	1471
20.01	6315	3158
21.01	8705	4352
22.01	8733	4366
23.01	4864	2432
24.01	2868	1434
25.01	5777	2889
26.01	2118	1059
27.01	4061	2030
28.01	4403	2202
29.01	6191	3095
30.01	3379	1689
31.01	8295	4147
Total	243232	121616



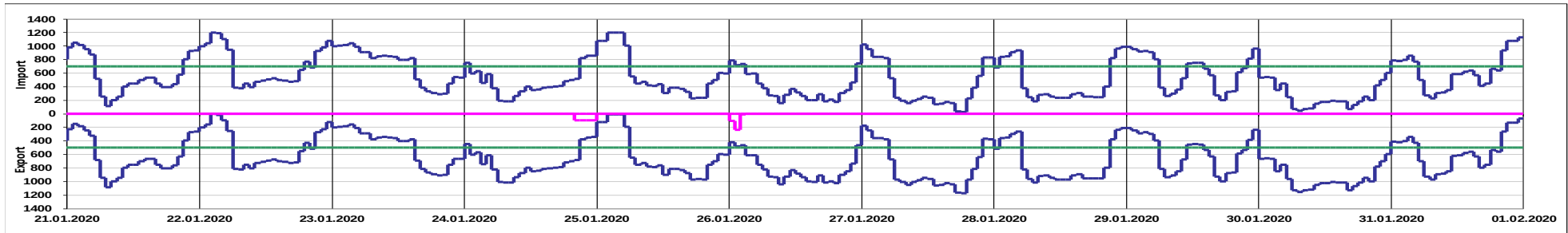
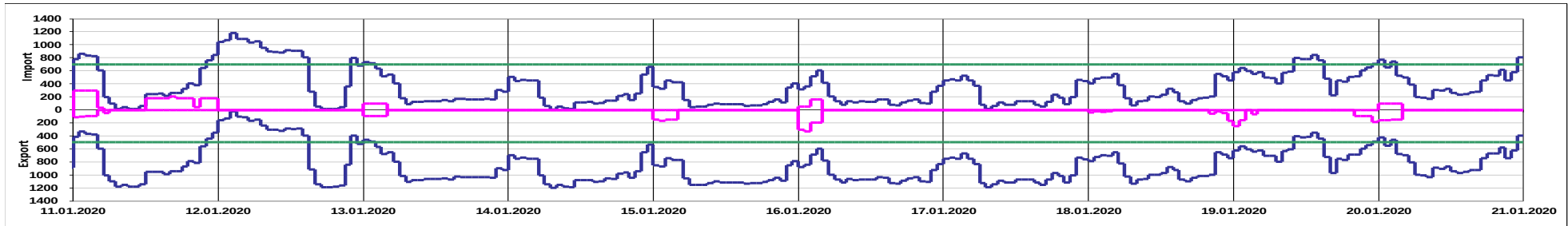
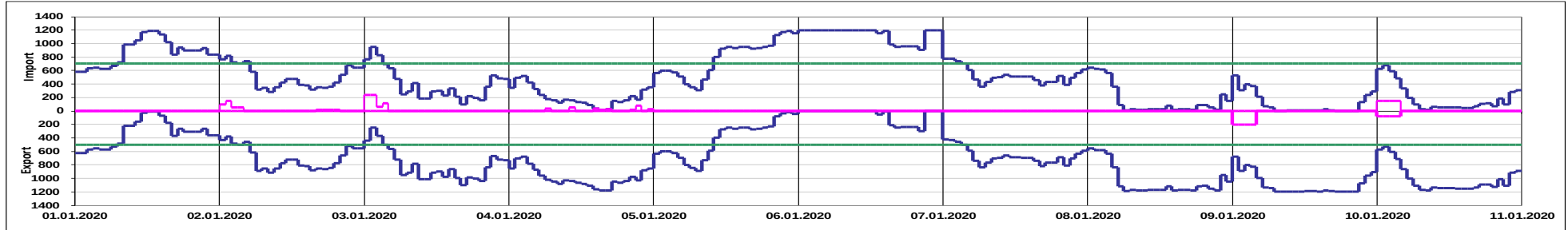
Transelectrica®

Societate Administrată în Sistem Dualist

Market for Allocation of Cross-Border Capacities

Intraday Auctions on Romanian – Serbian border

Serbia January 2020



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

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

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

Public



Auction Price
[Euro/MWh] - Import

Serbia	January 2020
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Transelectrica®
Societate Administrată în Sistem Dualist

Market for Allocation of Cross-Border Capacities

Statistics on Yearly Auction

2020		
Hungary export	Number of Capacity Traders	32
	Number of Capacity Holders	16
	Number of Bids	130
Hungary import	Number of Capacity Traders	30
	Number of Capacity Holders	11
	Number of Bids	132
Bulgaria export	Number of Capacity Traders	34
	Number of Capacity Holders	10
	Number of Bids	93
Bulgaria import	Number of Capacity Traders	33
	Number of Capacity Holders	12
	Number of Bids	127
Serbia export	Number of Capacity Traders	12
	Number of Capacity Holders	8
	Number of Bids	88
Serbia import	Number of Capacity Traders	13
	Number of Capacity Holders	10
	Number of Bids	85
Ukraine export	Number of Capacity Traders	-
	Number of Capacity Holders	-
	Number of Bids	-
Ukraine import	Number of Capacity Traders	-
	Number of Capacity Holders	-
	Number of Bids	-
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	-

2020	Maximum	Minimum
Number of Capacity Traders	34	12
Number of Capacity Holders	16	8
Number of Bids	132	85



Transelectrica®

Societate Administrată în Sistem Dualist

Market for Allocation of Cross-Border Capacities

Statistics on Monthly Auction

	January 2020	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	31
Hungary export	Number of Capacity Traders	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	
	Number of Capacity Holders	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 Bids	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
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	30
	Number of Capacity Holders	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
	Number of Bids	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131
Bulgaria export	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	25
	Number of Capacity Holders	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
	Number of Bids	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78
Bulgaria import	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	23
	Number of Capacity Holders	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
	Number of Bids	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
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	12	12
	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	9
	Number of Bids	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73
Serbia import	Number of Capacity Traders	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
	Number of Capacity Holders	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	7
	Number of Bids	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73
Ukraine export	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	7
	Number of Capacity Holders	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	Number of Bids	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	23
Ukraine import	Number of Capacity Traders	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	9
	Number of Capacity Holders	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	Number of Bids	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

January 2020	Maximum	Minimum
Number of Capacity Traders	30	7
Number of Capacity Holders	15	6
Number of Bids	131	23

Statistics on Daily Auctions

January 2020		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	31
Serbia Export	Maximum Number of Capacity Traders	9	8	8	7	9	9	8	8	8	8	8	7	7	10	9	9	9	9	8	10	9	10	9	9	9	7	7	9	9	9	10															
	Maximum Number of Capacity Holders	5	8	6	7	7	6	6	7	7	8	8	7	7	8	7	8	8	8	8	6	7	8	8	8	8	7	7	8	8	7	9															
	Maximum Number of Bids	34	29	28	19	33	33	27	26	27	21	24	25	22	35	32	31	30	34	33	30	34	31	30	32	35	22	23	25	30	27	29															
Serbia Import	Maximum Number of Capacity Traders	8	8	9	9	8	8	8	8	10	8	8	7	7	10	8	8	8	8	8	8	8	8	8	8	8	7	7	7	7	8	7															
	Maximum Number of Capacity Holders	8	7	7	8	8	8	7	7	8	8	7	7	5	9	7	6	6	6	6	5	7	7	8	8	8	5	6	5	7	6	6															
	Maximum Number of Bids	27	30	31	39	26	25	26	36	40	27	34	34	28	34	31	32	34	32	31	27	32	35	28	27	28	25	27	23	23	24	25															
Bulgaria Export	Maximum Number of Capacity Traders	16	13	15	14	15	14	17	15	15	15	14	14	14	15	15	16	14	14	15	16	16	17	16	16	16	13	16	15	17	15	16															
	Maximum Number of Capacity Holders	13	10	10	12	12	11	14	12	12	11	12	12	11	13	13	13	13	12	11	12	11	11	13	13	14	12	12	12	11	11	11															
	Maximum Number of Bids	36	27	32	29	34	34	36	34	31	34	32	38	38	34	32	36	29	33	35	35	34	36	39	38	38	29	36	26	33	35	41															
Bulgaria Import	Maximum Number of Capacity Traders	12	11	15	16	13	12	13	13	15	14	16	14	13	13	14	15	15	15	13	14	16	14	14	14	16	14	12	14	14	14	13															
	Maximum Number of Capacity Holders	11	11	13	13	13	11	12	11	12	12	14	13	11	13	14	15	13	14	12	13	15	12	13	13	15	13	11	13	13	13	12															
	Maximum Number of Bids	22	17	19	31	22	22	22	25	25	23	30	26	28	28	28	27	33	29	23	24	26	24	26	24	24	23	24	27	26	30	24															

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

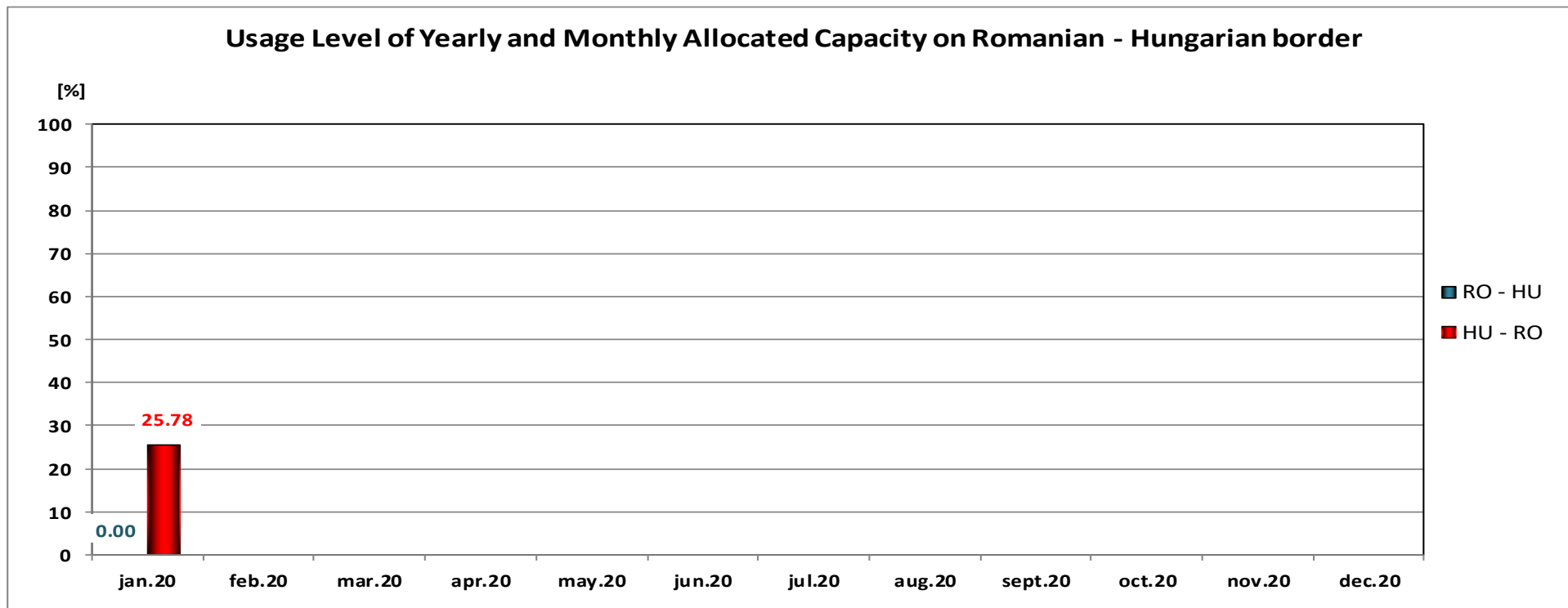
Market for Allocation of Cross-Border Capacities



Statistics on Intraday Auctions

January 2020	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	31
Serbia Export	Maximum Number of Capacity Traders	0	0	0	0	0	0	0	0	1	1	2	0	1	0	2	1	0	2	2	2	0	0	0	1	0	3	0	0	0	0	1
	Maximum Number of Capacity Holders	-	-	-	-	-	-	-	-	1	1	2	-	1	-	2	1	-	2	1	2	-	-	-	1	-	3	-	-	-	-	1
Serbia Import	Maximum Number of Capacity Traders	0	1	1	1	0	0	0	0	0	1	1	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Maximum Number of Capacity Holders	-	1	1	1	-	-	-	-	-	1	1	-	1	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-

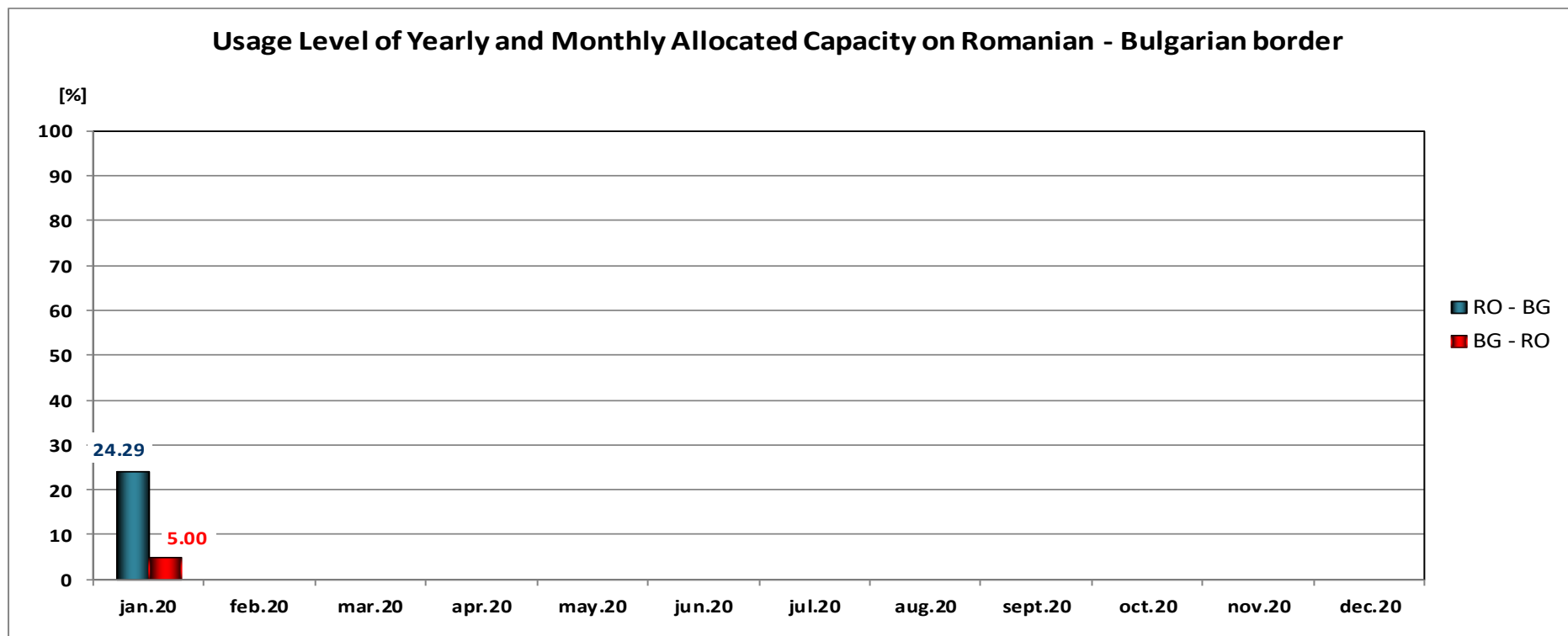
Note: In the table are presented the daily maximum hourly values.



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.

In January 2020, the average values (arithmetic) of usage level are: 0 % on export direction and 25.78 % on import direction.



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.

In January 2020, the average values (arithmetic) of usage level are: 24.29 % on export direction and 5 % on import direction.

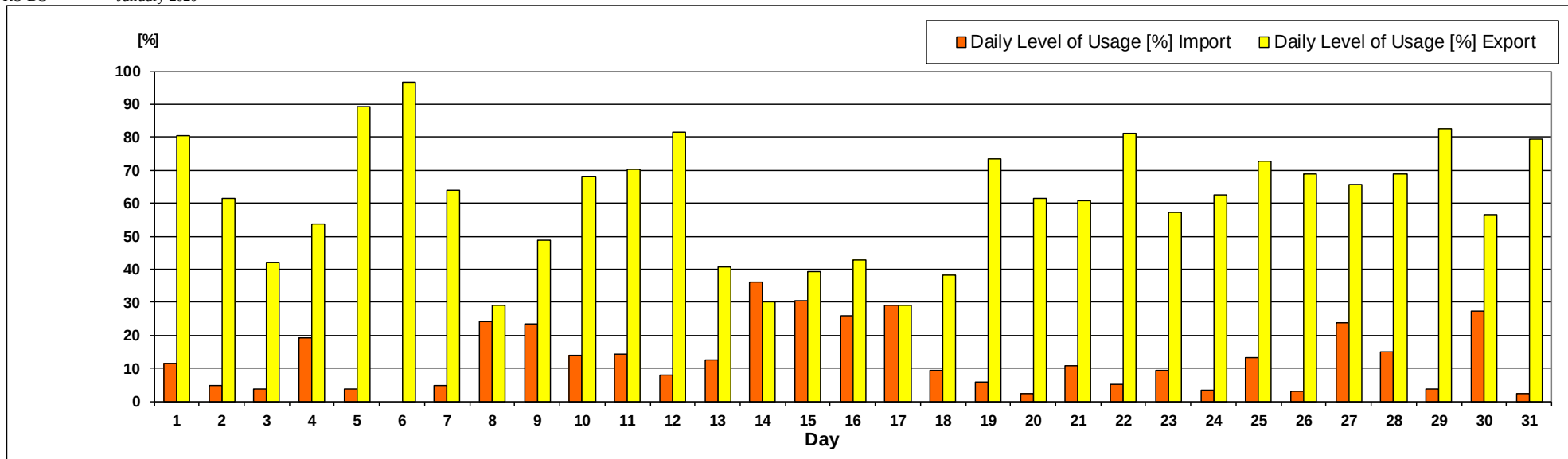
Market for Allocation of Cross-Border Capacities

Daily Auctions on Romanian – Bulgarian border

Usage Level of Daily Allocated Capacity

RO-BG

January 2020



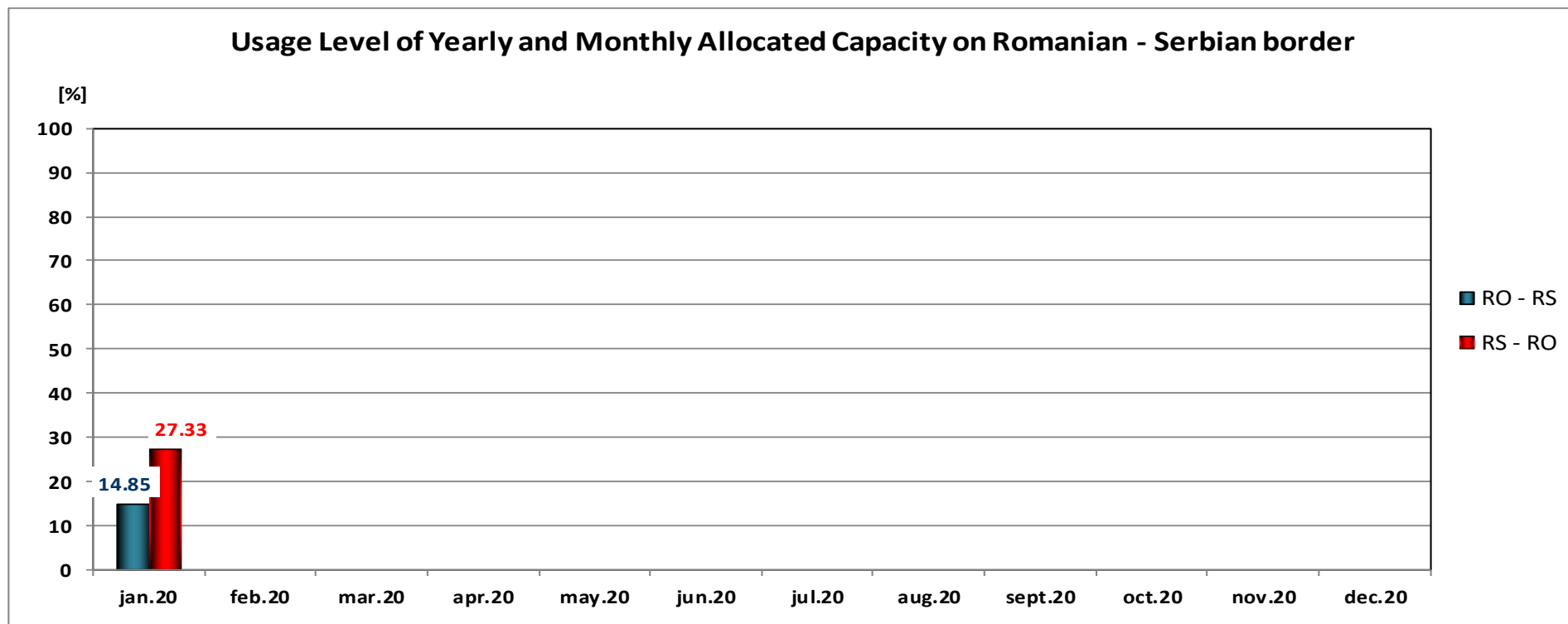
Daily Level of Usage [%]

January 2020	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	31
Import	11.28	4.69	3.82	19.23	3.87	0.00	4.61	24.07	23.54	13.92	14.19	7.85	12.60	35.92	30.36	25.80	28.89	9.24	5.72	2.29	10.70	5.06	9.24	3.42	13.10	3.13	23.80	14.89	3.70	27.17	2.16
Export	80.40	61.40	42.06	53.57	89.12	96.49	63.88	29.04	48.75	67.99	70.14	81.40	40.53	30.26	39.15	42.85	28.88	38.23	73.33	61.52	60.68	81.19	57.36	62.37	72.65	68.93	65.70	68.70	82.51	56.52	79.43

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 13.15 [%]

- Export 60.33 [%]



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.

In January 2020, the average values (arithmetic) of usage level are: 14.85 % on export direction and 27.33 % on import direction.

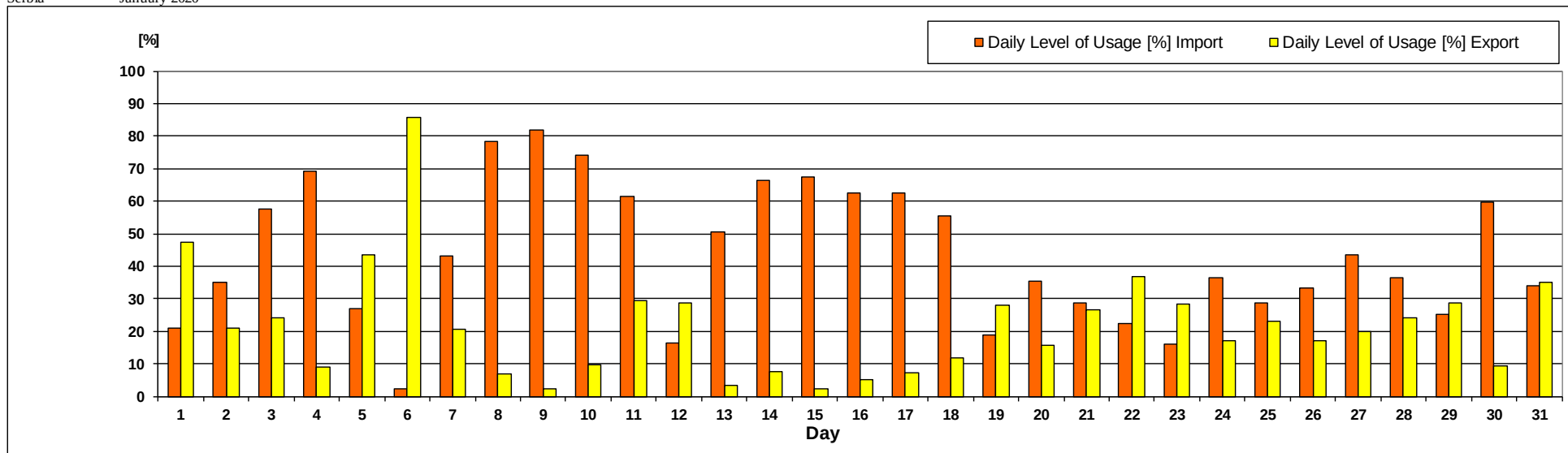
Market for Allocation of Cross-Border Capacities

Daily Auctions on Romanian – Serbian border

Usage Level of Daily Allocated Capacity

Serbia

January 2020



Daily Level of Usage [%]

January 2020	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	31
Import	20.94	34.87	57.67	69.27	26.81	2.13	43.11	78.18	81.98	74.00	61.57	16.46	50.42	66.54	67.32	62.61	62.41	55.32	18.79	35.34	28.70	22.21	16.20	36.62	28.73	33.17	43.38	36.60	25.16	59.52	34.11
Export	47.48	20.79	24.18	9.09	43.33	85.70	20.52	7.00	2.34	9.63	29.55	28.84	3.30	7.68	2.31	5.02	7.21	11.65	27.89	15.55	26.61	36.83	28.27	16.99	23.18	17.19	20.00	24.10	28.71	9.27	34.94

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 41.09 [%]

- Export 19.15 [%]

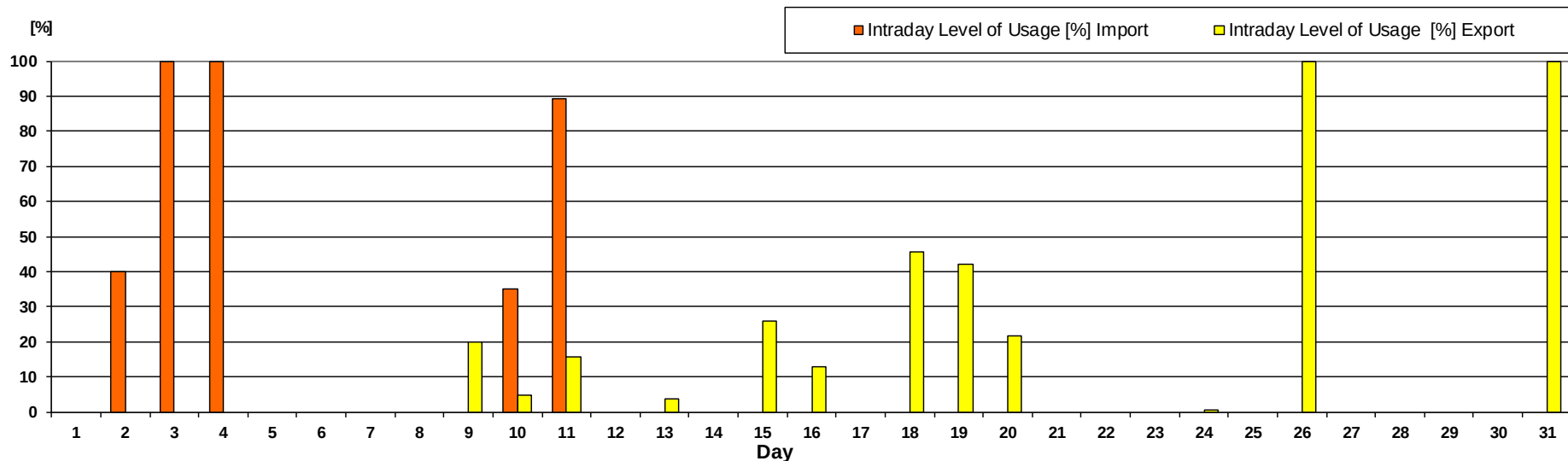
Market for Allocation of Cross-Border Capacities

Intraday Auctions on Romanian – Serbian border

Usage Level of Intraday Allocated Capacity

Serbia

January 2020

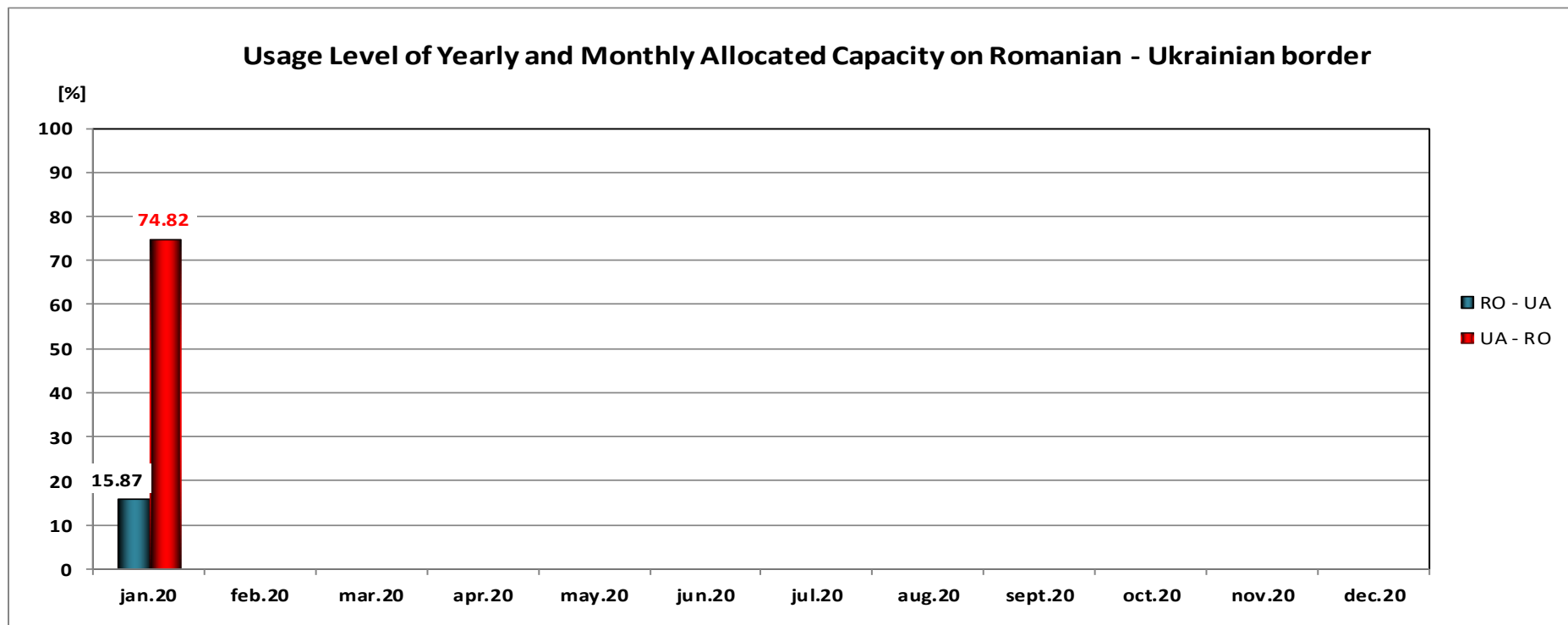


Intraday Level of Usage [%]

January 2020	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	31
Import	-	40.00	100.00	100.00	-	-	-	-	-	35.17	89.22	-	0.00	-	-	0.00	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	19.88	4.87	15.79	-	3.75	-	25.85	-	-	45.61	42.16	21.53	-	-	-	0.50	-	100.00	-	-	-	-	100.00

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 65.66 [%]
- Export 25.74 [%]

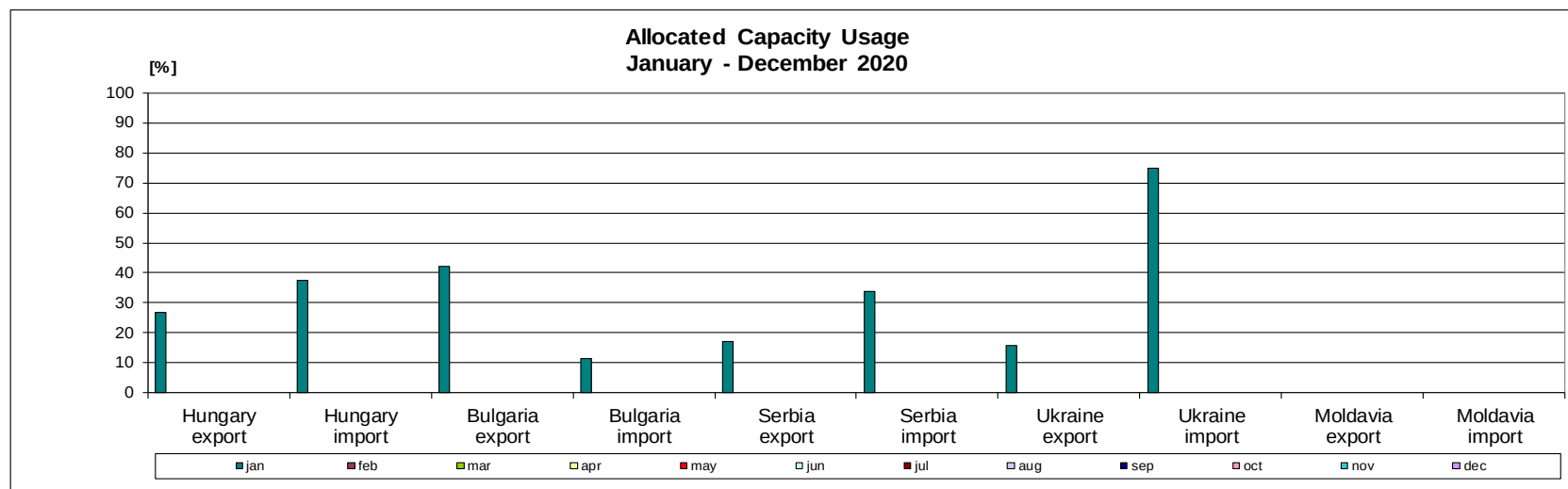


CET

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.

In January 2020, the average values (arithmetic) of usage level are: 15.87 % on export direction and 74.82 % on import direction.

Usage level of capacity rights



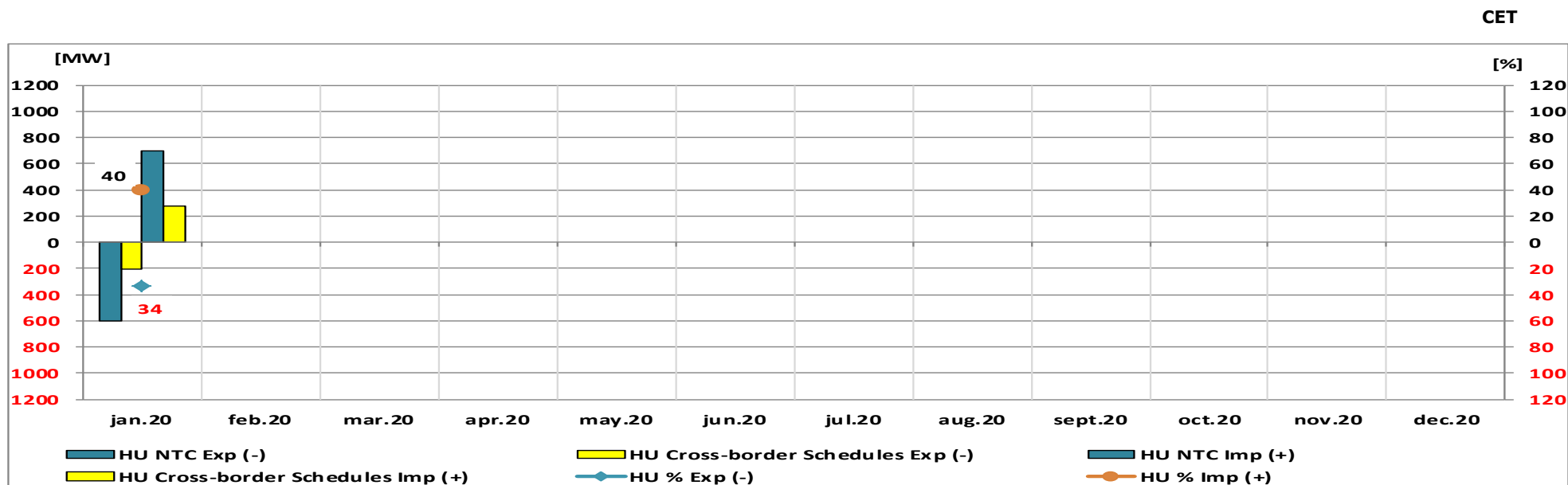
The level of usage of total capacity rights on one border and direction represent the percentage ratio between the energy associated with the commercial transactions, nominated during a month, and the energy associated with the total capacity rights.

[%]	Hungary export	Hungary import	Bulgaria export	Bulgaria import	Serbia export	Serbia import	Ukraine export	Ukraine import	Moldavia export	Moldavia import
jan	26.94	37.53	42.28	11.32	17.26	33.77	15.87	74.82	-	-
feb										
mar										
apr										
may										
jun										
jul										
aug										
sep										
oct										
nov										
dec										
average	26.94	37.53	42.28	11.32	17.26	33.77	15.87	74.82	-	-

Type B

In January 2020, it was noticed a low level of capacity usage and the highest level of usage was on import direction to Ukraine.

Usage Level of NTC on Romanian – Hungarian border



Hungary (monthly averages values, MW)	jan.20	feb.20	mar.20	apr.20	may.20	jun.20	jul.20	aug.20	sept.20	oct.20	nov.20	dec.20
HU NTC Exp (-)	-600											
HU Cross-border Schedules Exp (-)	-203											
HU NTC Imp (+)	700											
HU Cross-border Schedules Imp (+)	280											

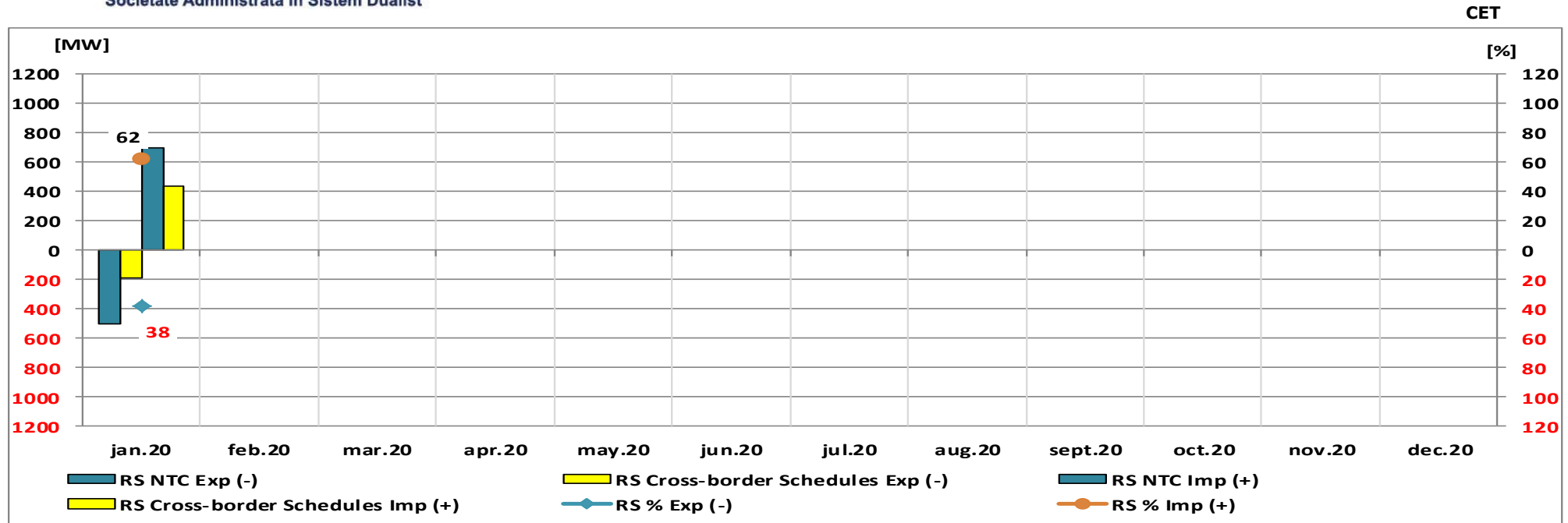
The level of usage was calculated as ratio between total cross-border schedules (capacity nominated on long and short term) and NTC. In January 2020, the average values (arithmetic) of usage level are: 33.8 % on export direction and 40.06 % on import direction.



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Market for Allocation of Cross-Border Capacities

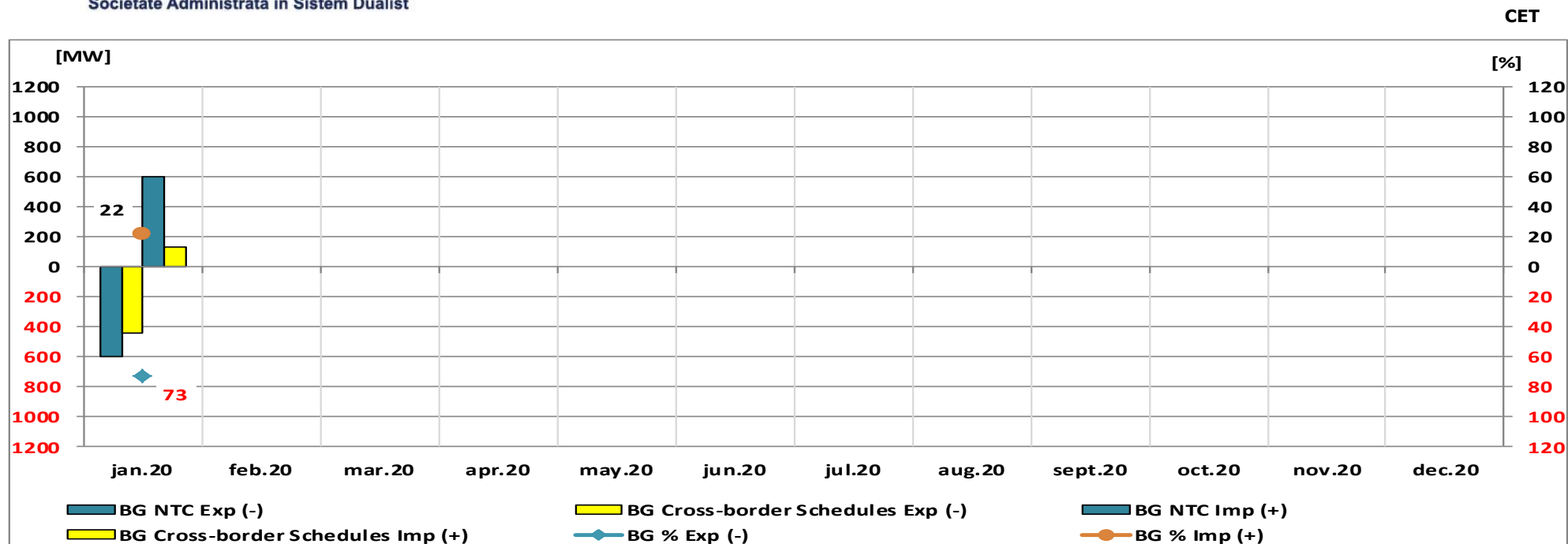
Usage Level of NTC on Romanian – Serbian border



Serbia (monthly averages values, MW)	jan.20	feb.20	mar.20	apr.20	may.20	jun.20	jul.20	aug.20	sept.20	oct.20	nov.20	dec.20
RS NTC Exp (-)	-500											
RS Cross-border Schedules Exp (-)	-192											
RS NTC Imp (+)	700											
RS Cross-border Schedules Imp (+)	435											

The level of usage was calculated as ratio between total cross-border schedules (capacity nominated on long and short term) and NTC. In January 2020, the average values (arithmetic) of usage level are: 38.32 % on export direction and 62.08 % on import direction.

Usage Level of NTC on Romanian – Bulgarian border



Bulgaria (monthly averages values, MW)	jan.20	feb.20	mar.20	apr.20	may.20	jun.20	jul.20	aug.20	sept.20	oct.20	nov.20	dec.20
BG NTC Exp (-)	-600											
BG Cross-border Schedules Exp (-)	-438											
BG NTC Imp (+)	600											
BG Cross-border Schedules Imp (+)	134											

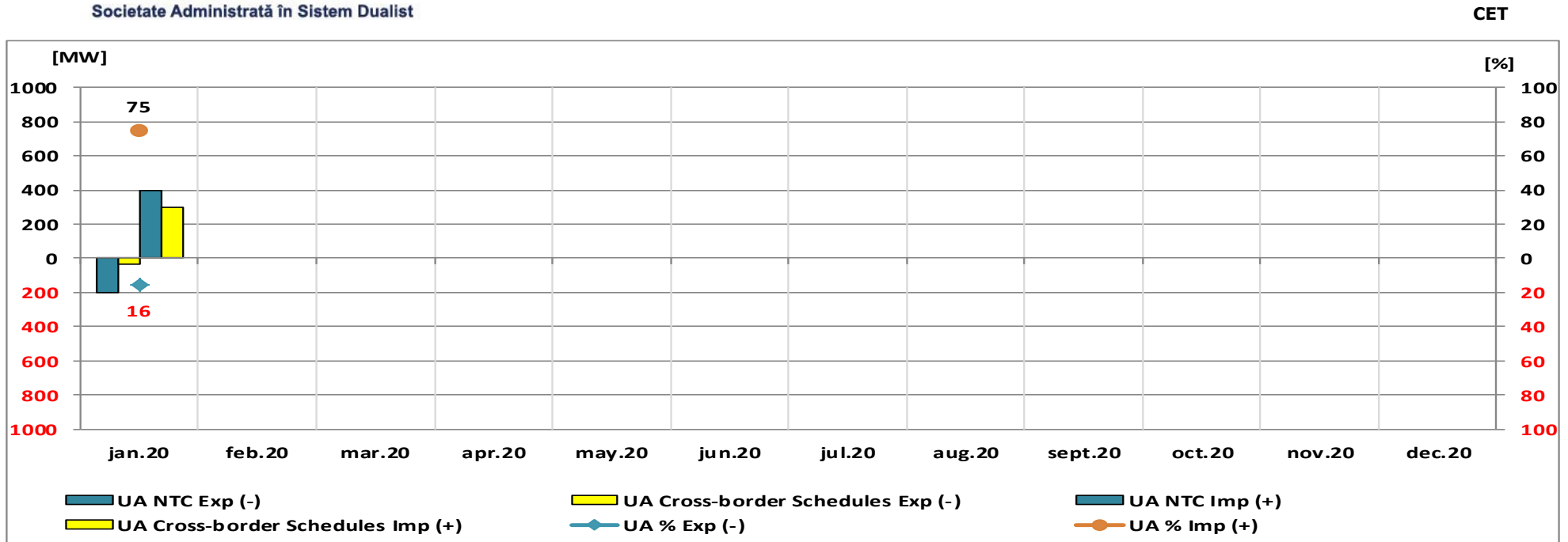
The level of usage was calculated as ratio between total cross-border schedules (capacity nominated on long and short term) and NTC. In January 2020, the average values (arithmetic) of usage level are: 73.01 % on export direction and 22.31 % on import direction.



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Market for Allocation of Cross-Border Capacities

Usage Level of NTC on Romanian – Ukrainian border



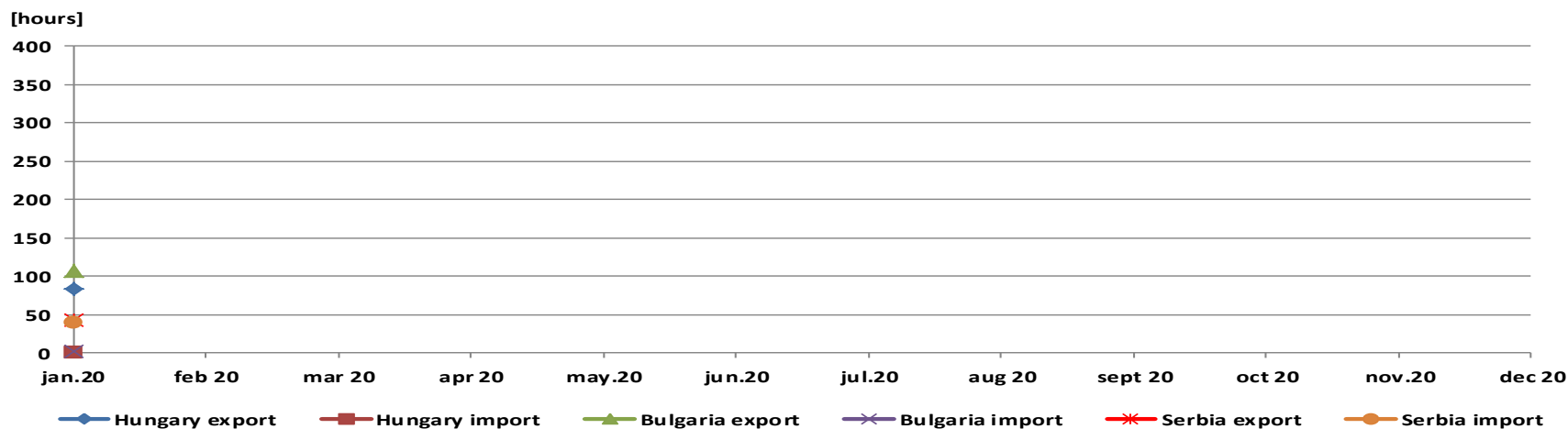
Ukraine (monthly averages values, MW)	jan.20	feb.20	mar.20	apr.20	may.20	jun.20	jul.20	aug.20	sept.20	oct.20	nov.20	dec.20
UA NTC Exp (-)	-200											
UA Cross-border Schedules Exp (-)	-32											
UA NTC Imp (+)	400											
UA Cross-border Schedules Imp (+)	299											

The level of usage was calculated as ratio between total cross-border schedules (capacity nominated on long and short term) and NTC. In January 2020, the average values (arithmetic) of usage level are: 15.87% on export direction and 74.82% on import direction.

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.20	feb.20	mar.20	apr.20	may.20	jun.20	jul.20	aug.20	sept.20	oct.20	nov.20	dec.20
Hungary export	83											
Hungary import	0											
Bulgaria export	107											
Bulgaria import	2											
Serbia export	43											
Serbia import	40											

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

January 2020

January 2020

Border	Auction												Total		
	Yearly			Monthly			Daily			Intraday					
	C1 [%]	C3 [%]	HHI	C1 [%]	C3 [%]	HHI	C1 [%]	C3 [%]	HHI	C1 [%]	C3 [%]	HHI	C1 [%]	C3 [%]	HHI
Hungary import	28.57	57.43	1565	19.71	48.39	1109	-	-	-	-	-	-	15.90	35.45	825
Hungary export	27.51	55.87	1432	42.29	88.56	3055	-	-	-	-	-	-	17.82	48.36	1110
Bulgaria import	36.00	56.00	1769	21.43	60.71	1410	28.75	63.89	1613	-	-	-	21.63	48.52	1058
Bulgaria export	22.09	56.63	1517	37.58	63.94	1944	21.27	54.09	1325	-	-	-	12.53	36.27	817
Serbia import	20.00	56.00	1522	51.11	80.00	3168	43.41	74.56	2595	98.76	100.00	9755	19.55	51.05	1267
Serbia export	30.40	68.00	1899	40.00	74.00	2339	28.25	69.42	1930	94.88	99.98	9017	20.10	49.53	1221
Ukraine import	-	-	-	26.25	72.50	2047	-	-	-	-	-	-	26.25	72.50	2047
Ukraine export	-	-	-	30.00	75.00	2188	-	-	-	-	-	-	30.00	75.00	2188
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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