



Transelectrica®
Societate Administrată în Sistem Dualist

MARKET MONITORING REPORT

Ancillary Services

November 2021



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
CMBC – Centralised Market for Electricity Bilateral Contracts
IDM – Intraday Market

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

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

General Remarks

- The contracts signed between the Ancillary System Services Suppliers and Transelectrica covered 98.90% from TSO's necessary volume.
- The report contains requested quantities by Transelectrica (through NDC), contracted quantities based on bid amounts and realized quantities.
- 9 participants have supplied Ancillary Services: CE Hunedoara S.A., CE Oltenia S.A., Hidroelectrica S.A., Bepco S.R.L., Electro Energy Sud, OMV Petrom S.A., Electrogrup S.A., Nova Gas&Power S.A., Electrocentrale S.A.
- Transmission network losses have been contracted through CMBC market with: Next Energy Partners (C196/2020), OMV Petrom S.A. (C42, C107, C476/2020), Hidroelectrica S.A. (C41, C60, C167/2020), Nuclearelectrica S.A. (C44/2020), Entrex Services S.R.L. (C28/2021), total contracted quantity includes also the energy traded by Transelectrica on DAM, IDM and BM.

Ancillary Services



Statistic Data

Reserves	Average Prices [lei/hMW] and Costs [lei]				Quantities [hMW/h]							Participants	
	Average weighted prices [lei/hMW]	Contracted services costs [lei]	Penalties for unfulfilled contracted services [lei]	Total costs Ancillary Services [lei]	Requested	Contracted	Realized	Not realized	Available regulation energy			Number	HHL
									average	min	max		
Secondary regulation on / off consumption peak *	97.73	33,737,460.00	0.00	33,737,460.00	* 491.67/486.79	*490.63/471.45	*490.63/471.45	*0,00/0,00	*500,05/489,34	*304,00/304,00	*700,00/700,00	3	5267
Fast Tertiary Regulation Upward	47.44	21,391,000.00	3,070.00	21,387,930.00	626.25	626.25	626.16	0.09				8	7241
Fast Tertiary Regulation Downward	11.13	2,109,295.00	0.00	2,109,295.00	269.17	263.25	263.25	0.00				4	4060
Network losses (CMBC)	258.18	8,364,924.00	0.00	8,364,924.00	45	45	45	0.00				4	2840
Network losses (total)**	763.83	67,248,926.47	0.00	67,248,926.47	0	0	0	0.00					

* Secondary regulation band on /off peak

** Including contracted quantities on CMBC, DAM, BM and IDM

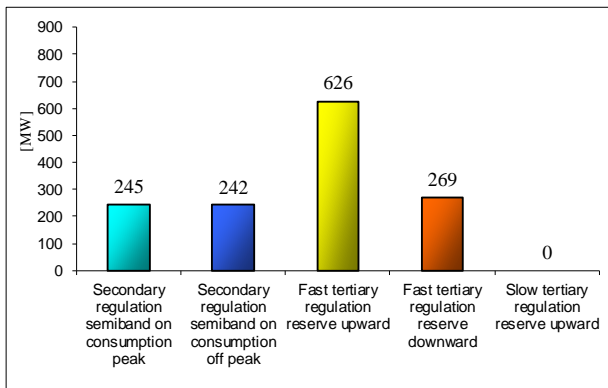
Note:

The average prices were calculated by deviding the total Ancillary Services to realized quantities

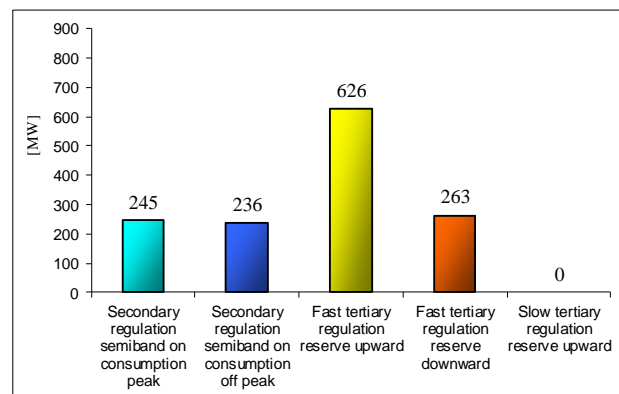
The network losses were contracted with OMV Petrom (C42, C107, C476/2020), Hidroelectrica SA (C41, C60, C167/2020),

Nuclearelectrica SA (C44/2020), Entrex Services SRL (C28/2021).

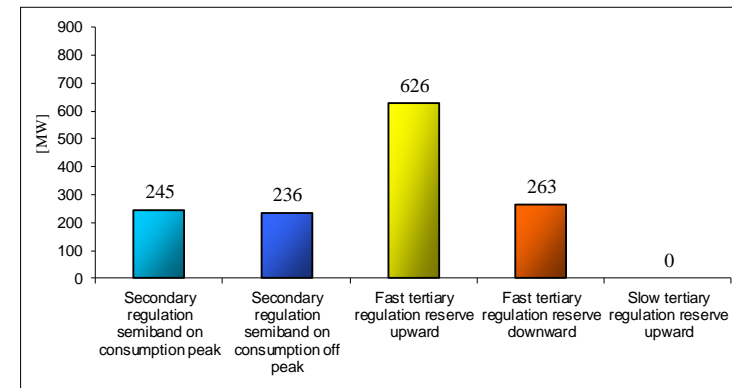
Average requested quantities [hMW/h]



Average contracted quantities [hMW/h]



Average realized quantities [hMW/h]



In November 2021, Ancillary Services contracts were concluded as a result of daily tenders organized by C.N.T.E.E. Transelectrica S.A. Necessary quantities to be purchased for Secondary Band Reserve decreased slightly compared to the previous month. The quantities needed to be purchased for Upward/Downward Fast Tertiary Reserve remained at the level of the previous month. In the case of Slow Tertiary Reserve, no tenders were held.

Ancillary Services

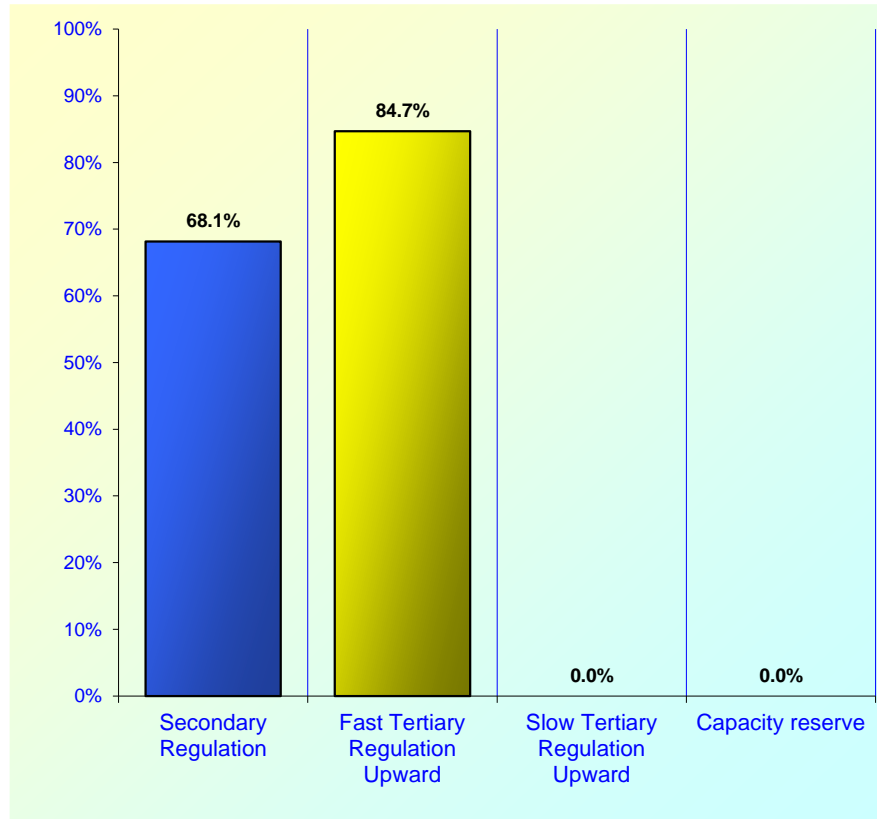


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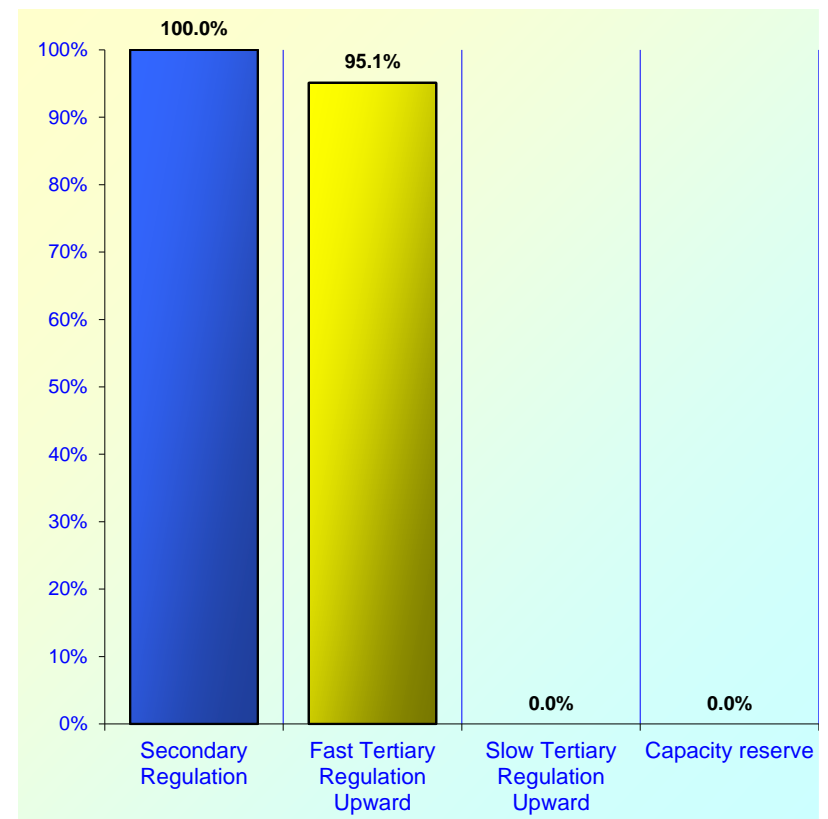
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Market share of the most significant Ancillary Services Market Participants

C1 (%) on type of regulation



C3 (%) on type of regulation



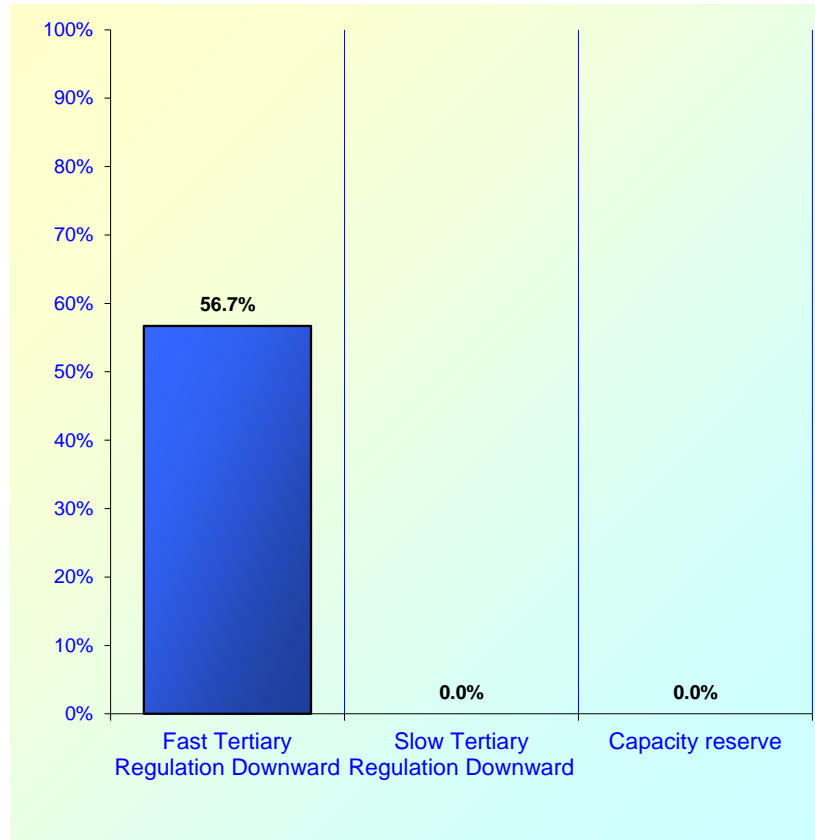
Ancillary Services



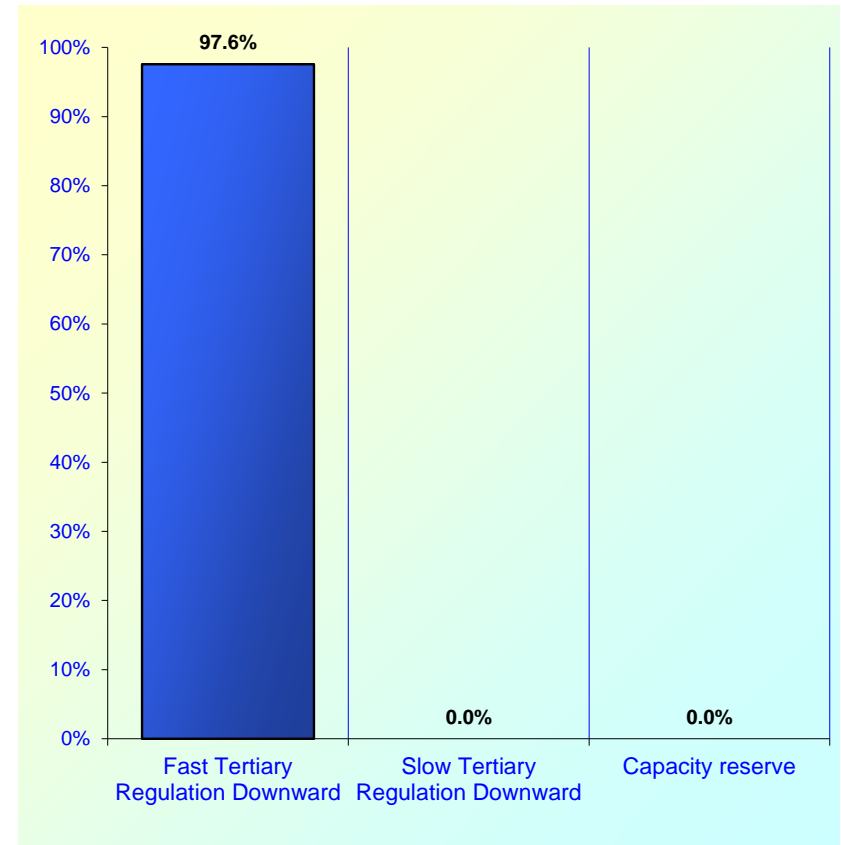
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Market share of the most significant Ancillary Services Market Participants

C1 (%) on type of regulation



C3 (%) on type of regulation





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Ancillary Services

Auction Price [lei/MWh] – Secondary Regulation

Secondary Regulation Reserve	November 2021																										
	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	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	169.00	169.00	
2	80.00	137.00	95.00	65.00	65.00	82.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	224.00	224.00	
3	80.00	127.00	77.00	65.00	65.00	65.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	199.00	199.00	
4	80.00	67.00	65.00	65.00	65.00	65.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	175.00	175.00	
5	80.00	76.00	65.00	65.00	65.00	65.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	173.00	173.00	
6	80.00	66.00	65.00	65.00	65.00	65.00	60.00	79.00	80.00	80.00	180.00	159.00	148.00	139.00	135.00	153.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	201.00	144.00	201.00	
7	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	105.00	100.00	91.00	83.00	80.00	97.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	144.00	97.00	144.00	
8	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	143.00	143.00	
9	80.00	79.00	65.00	65.00	65.00	65.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	116.00	116.00	
10	80.00	65.00	65.00	65.00	65.00	65.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	213.00	213.00	
11	117.00	117.00	83.00	74.00	67.00	104.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	221.00	221.00	
12	137.00	137.00	106.00	84.00	74.00	105.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	210.00	210.00	
13	80.00	184.00	155.00	136.00	122.00	124.00	144.00	80.00	80.00	80.00	211.00	187.00	171.00	168.00	178.00	194.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	234.00	201.00	234.00	
14	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	168.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	229.00	229.00	
15	80.00	83.45	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	147.00	147.00	
16	137.45	134.00	107.00	90.00	89.00	111.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	245.00	245.00	
17	117.45	114.00	80.00	67.45	65.00	78.45	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	211.00	211.00	
18	156.45	153.00	130.00	107.00	90.00	120.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	179.00	179.00	
19	144.45	141.00	116.00	92.00	80.00	108.00	170.00	263.00	357.00	375.00	371.00	350.00	330.00	320.00	321.00	306.00	336.00	381.00	400.00	389.00	353.00	263.00	179.00	141.00	400.00	400.00	
20	65.00	44.00	44.00	44.00	44.00	44.00	65.00	80.00	133.00	182.00	185.00	171.00	164.00	153.00	162.00	80.00	80.00	80.00	80.00	299.00	253.00	197.00	159.00	131.00	299.00	299.00	
21	80.00	80.00	80.00	80.00	80.00	80.00	65.00	62.00	80.00	80.00	80.00	80.00	95.00	74.00	93.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	95.00	95.00	95.00	
22	65.00	44.00	44.00	44.00	44.00	44.00	136.00	241.00	355.00	368.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	437.00	421.00	379.00	287.00	214.00	187.45	437.00	
23	65.00	65.00	65.00	79.00	74.00	65.00	65.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	65.00	80.00	
24	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00
25	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00
26	80.00	178.00	158.00	133.00	118.00	135.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	158.00	178.00	
27	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	211.00	211.00	
28	80.00	80.00	105.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	105.00	105.00
29	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	166.00	166.00	
30	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00

Clearing Prices for auctions organized in November 2021 for Secondary Band Reserve were between 44 lei/hMW and 437 lei/hMW, in most hourly intervals (73.06%), the Clearing Price was 80 lei/hMW. The maximum price of 437 lei/hMW was registered in only one hourly interval (0.14%).



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Ancillary Services

Auction Price [lei/MWh] – Downward Fast Tertiary Regulation

Fast Tertiary Reserve - Downward	November 2021																								
	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	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	12.00
2	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	10.00
3	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	12.00
4	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	12.00
5	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	10.00
6	15.00	17.00	17.00	17.00	17.00	17.00	12.00	12.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	17.00
7	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	20.00	20.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	12.00	10.00	15.00	15.00	15.00	15.00	15.00	20.00
8	12.00	12.00	12.00	12.00	12.00	12.00	12.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	12.00
9	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
10	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
11	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	9.00	9.00	9.00	10.00	10.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	10.00
12	9.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	10.00	10.00	10.00
13	15.00	15.00	15.00	15.00	15.00	15.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	15.00	15.00
14	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
15	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	12.00
16	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
17	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	12.00
18	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
19	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
20	17.00	17.00	17.00	17.00	17.00	17.00	15.00	15.00	15.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	15.00	17.00
21	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	10.00	10.00	12.00	12.00	15.00	15.00	17.00
22	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	12.00
23	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
24	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
25	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
26	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
27	15.00	15.00	15.00	15.00	15.00	15.00	15.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	15.00	15.00
28	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	12.00	12.00	15.00	15.00	15.00	15.00	15.00	15.00
29	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	12.00
30	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	10.00	10.00	15.00	15.00	15.00	15.00	15.00	17.00

Clearing Prices for auctions organized in November 2021 for downward Fast Tertiary Reserve were between 8 lei/hMW and 20 lei/hMW, in most hourly intervals (54.58%), the Clearing Price was 10 lei/hMW. The maximum price of 20 lei/hMW was registered in 2 of the hourly intervals (0.28%).



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