



Transelectrica®
Societate Administrată în Sistem Dualist

MARKET MONITORING REPORT

Ancillary Services

November 2022



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 96.33% from TSO's necessary volume.
- The report contains requested quantities by Transelectrica (through NDC), contracted quantities based on bid amounts and realized quantities.
- 8 participants have supplied Ancillary Services: CE Hunedoara S.A., CE Oltenia S.A., Hidroelectrica S.A., Bepco S.R.L., Electro Energy Sud, Electrogrup S.A., Nova Gas&Power S.A., Electrocentrale Craiova S.A.
- Transmission network losses have been contracted through CMBC market with: Complexul Energetic Oltenia (C326/2021), GEN-I (C369/2021), Hidroelectrica (C409, C410, C411, C417, C418/2021, C661/2022), LJV GSE Gamma (C651/2022), Nuclearelectrica (C583/2022), Termoficare Oradea (C777/2022), total contracted quantity includes also the energy traded by Transelectrica on DAM, IDM and BM.

Ancillary Services



Statistic Data

Average Prices [lei/hMW] and Costs [lei]

Reserves	Average weighted prices [lei/hMW]	Contracted services costs [lei]	Penalties for unfulfilled contracted services [lei]	Total costs Ancillary Services [lei]
Secondary regulation on / off consumption peak *	76.25	21,012,900.00	24,080.00	20,988,820.00
Fast Tertiary Regulation Upward	35.28	12,808,903.03	120,685.91	12,688,217.12
Fast Tertiary Regulation Downward	9.07	740,045.00	772.50	739,272.50
Slow Tertiary Regulation Upward	0.00	0.00	0.00	0.00
Network losses (CMBC)	582.79	41,559,936.80	0.00	41,559,936.80
Network losses (total)**	631.55	56,638,598.69	0.00	56,638,598.69

Quantities [hMW/h]

Reserves				Available regulation energy			Participants	
Requested	Contracted	Realized	Not realized	average	min	max	Number	HHI
*450,00/400,00	*431,53/347,90	*430,93/347,57	*0,60/0,37	*432,55/349,83	*320,00/278,00	*568,00/518,00	2	5332
504.17	504.17	499.51	4.66				8	4208
113.33	113.33	113.21	0.13				5	7325
0.00	0.00	0.00	0.00				0	0
99	99	99	0.00				6	4096
0	0	0.00	0.00					

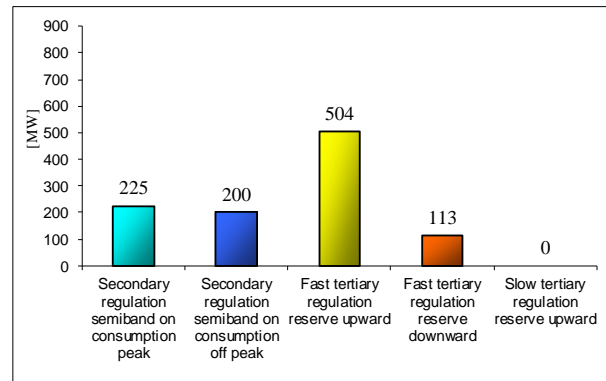
* Secondary regulation band on /off peak

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

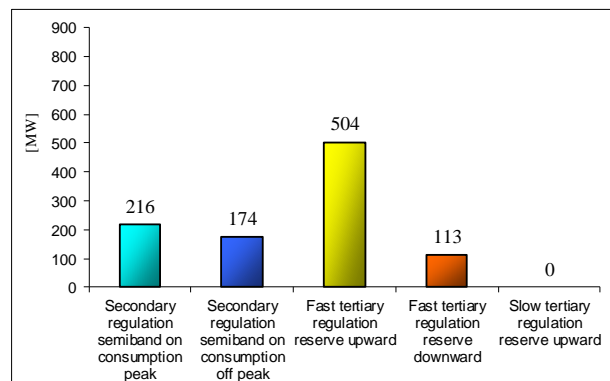
Note:

The average prices were calculated by deviding the total Ancillary Services to realized quantities
 The network losses were contracted with ENGIE Romania (C807, 808/2019), Entrex Services (C789, Hidroelectrica (C409, C410, C411, C417, C418/2021, C661/2022), LJJ GSE Gamma (C651/2022), Nuclearelectrica (C583/2022), Termoficare Oradea (C777/2022).

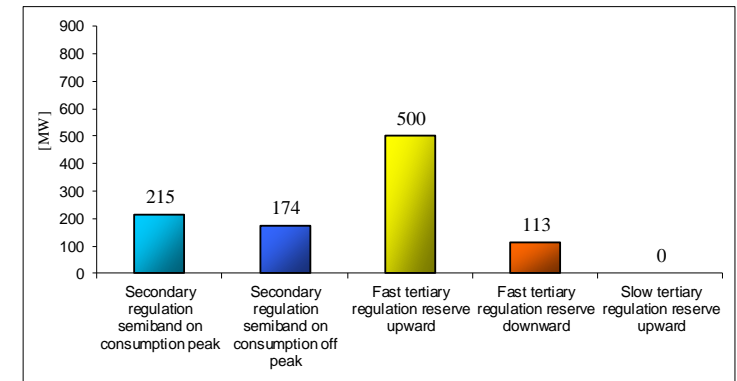
Average requested quantities [hMW/h]



Average contracted quantities [hMW/h]



Average realized quantities [hMW/h]



In November 2022, 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 and 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

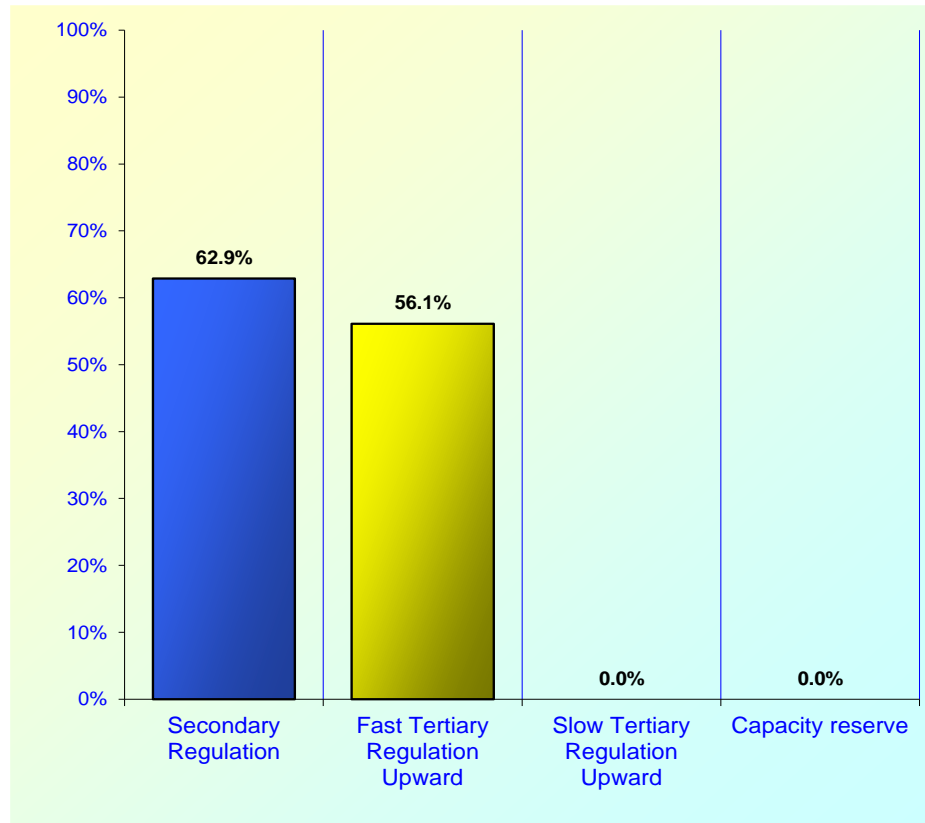


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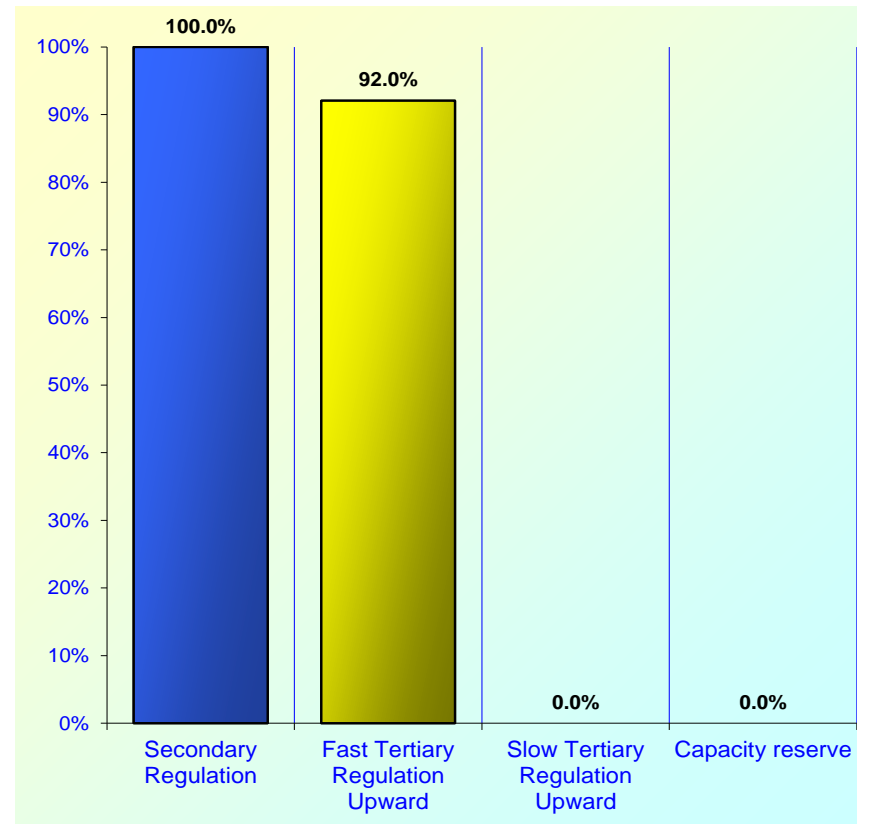
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Market share of the most significant Ancillary Services Market Participants

C1 (%) on type of regulation



C3 (%) on type of regulation



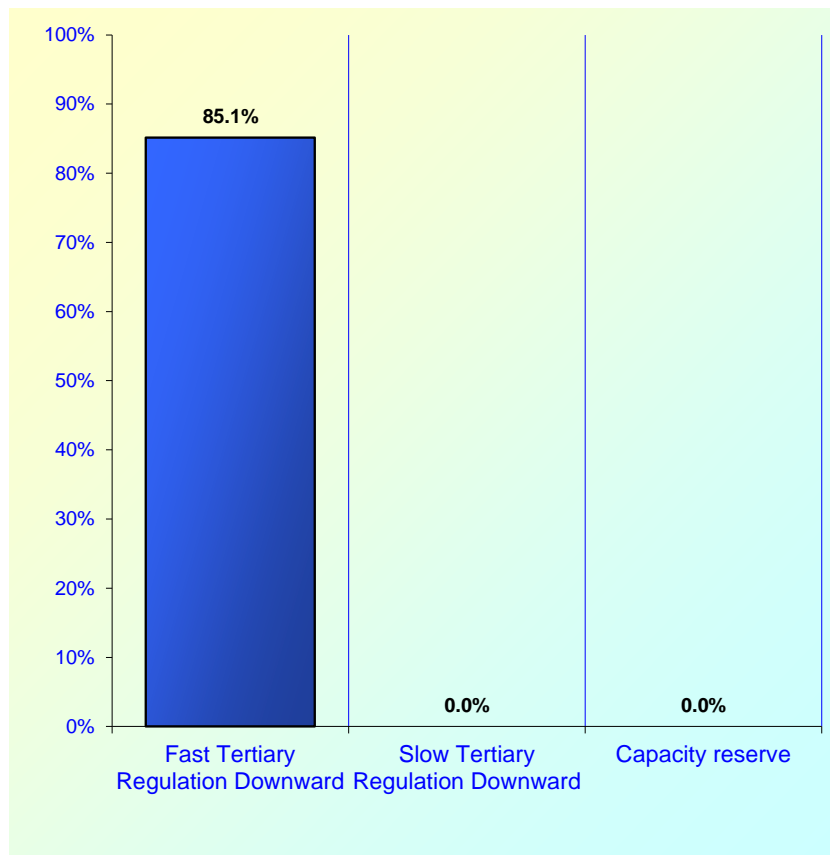
Ancillary Services



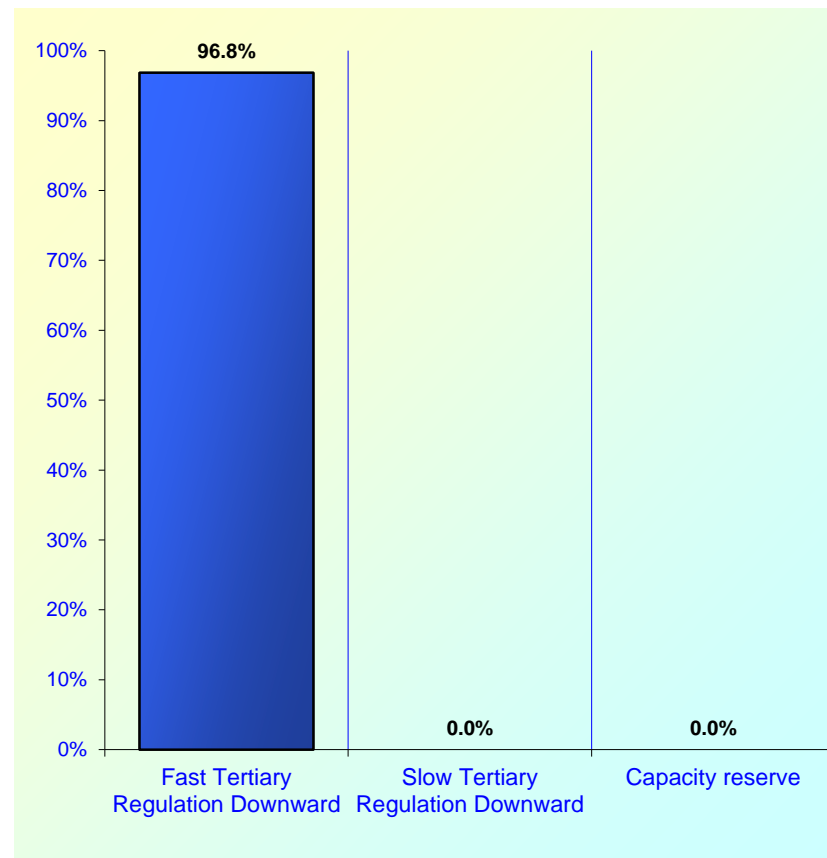
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Market share of the most significant Ancillary Services Market Participants

C1 (%) on type of regulation



C3 (%) on type of regulation





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Ancillary Services

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

Fast Tertiary Reserve - Upward	November 2022																								Max			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
1	29.00	29.00	29.00	29.00	29.00	29.00	29.00	40.00	40.00	40.00	40.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	29.00	40.00			
2	29.00	29.00	29.00	29.00	29.00	29.00	29.00	40.00	40.00	40.00	40.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	29.00	40.00			
3	29.00	29.00	29.00	29.00	29.00	29.00	29.00	40.00	40.00	40.00	40.00	35.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	40.00	35.00	29.00	40.00		
4	29.00	29.00	29.00	29.00	29.00	29.00	29.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	40.00	35.00	29.00	40.00		
5	29.00	29.00	29.00	29.00	29.00	29.00	29.00	40.00	40.00	40.00	40.00	35.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	29.00	40.00		
6	29.00	29.00	29.00	29.00	29.00	29.00	29.00	40.00	40.00	40.00	40.00	35.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	29.00	40.00		
7	29.00	35.00	35.00	29.00	29.00	29.00	29.00	40.00	40.00	40.00	40.00	35.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	40.00	35.00	25.00	40.00		
8	25.00	25.00	25.00	25.00	25.00	25.00	25.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	35.00	29.00	40.00		
9	29.00	29.00	29.00	29.00	29.00	29.00	29.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	40.00	35.00	25.00	40.00	
10	25.00	25.00	25.00	25.00	25.00	29.00	35.00	35.00	40.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	35.00	25.00	40.00		
11	24.00	24.00	24.00	24.00	24.00	24.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	35.00	29.00	40.00		
12	29.00	29.00	29.00	29.00	29.00	29.00	29.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	40.00	35.00	29.00	40.00	
13	29.00	29.00	29.00	29.00	29.00	29.00	29.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	40.00	35.00	29.00	40.00	
14	29.00	29.00	29.00	29.00	29.00	29.00	29.00	40.00	40.00	40.00	40.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	40.00	35.00	29.00	40.00	
15	29.00	29.00	29.00	29.00	29.00	29.00	29.00	35.00	40.00	40.00	40.00	40.00	35.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	40.00	35.00	29.00	40.00	
16	29.00	29.00	29.00	29.00	29.00	29.00	29.00	35.00	35.00	40.00	40.00	35.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	35.00	29.00	40.00	
17	29.00	29.00	29.00	29.00	29.00	29.00	29.00	35.00	35.00	40.00	40.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	35.00	29.00	40.00
18	25.00	25.00	25.00	25.00	25.00	25.00	25.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	29.00	40.00	
19	29.00	25.00	25.00	25.00	25.00	29.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	40.00	35.00	29.00	40.00	
20	25.00	25.00	25.00	25.00	25.00	29.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	40.00	35.00	25.00	40.00	
21	29.00	29.00	29.00	29.00	29.00	29.00	29.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	35.00	29.00	40.00	
22	25.00	25.00	25.00	25.00	25.00	25.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	40.00	35.00	25.00	40.00	
23	29.00	29.00	29.00	29.00	29.00	29.00	29.00	40.00	40.00	40.00	40.00	35.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	29.00	40.00	
24	29.00	29.00	29.00	29.00	29.00	29.00	29.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	40.00	35.00	25.00	40.00	
25	29.00	29.00	29.00	29.00	29.00	29.00	29.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	29.00	40.00	
26	29.00	29.00	29.00	29.00	29.00	29.00	29.00	40.00	40.00	40.00	40.00	40.00	35.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	29.00	40.00	
27	29.00	29.00	29.00	29.00	29.00	29.00	29.00	40.00	40.00	40.00	40.00	40.00	35.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	29.00	40.00	
28	29.00	35.00	35.00	29.00	29.00	29.00	29.00	40.00	40.00	40.00	40.00	40.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	29.00	40.00	
29	29.00	29.00	29.00	29.00	29.00	29.00	29.00	35.00	40.00	40.00	40.00	40.00	35.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	35.00	29.00	40.00
30	29.00	29.00	29.00	29.00	29.00	29.00	29.00	40.00	40.00	40.00	40.00	40.00	35.00	35.00	35.00	35.00	35.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	29.00	40.00	

Clearing Prices for auctions organized in November 2022 for upward Fast Tertiary Reserve were between 24 lei/hMW and 40 lei/hMW, in most time intervals (39.31%), the Clearing Price was 35 lei/hMW. The maximum price of 40 lei/hMW was registered in 32.08% of time intervals.

Ancillary Services

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



Fast Tertiary Reserve - Downward	November 2022																										
	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	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	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	10.00	10.00	10.00	
2	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	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
3	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	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
4	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	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
5	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	10.00	10.00
6	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	10.00	10.00
7	8.00	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	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	10.00
8	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	8.00	8.00	8.00	8.00	9.80	9.80	9.80	9.80	9.80	8.00	8.00	8.00	8.00	8.00	8.00	9.80	9.80	9.80	9.80
9	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	8.00	8.00	8.00	8.00	8.00	8.00	9.80	9.80	9.80	9.80
10	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	12.00	12.00	12.00
11	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80
12	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.50	9.50	9.50	9.80	9.80	9.80	9.80	9.80
13	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80
14	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.00	8.90	8.90	8.90	8.90	9.00	9.00	9.80	9.80	9.80	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90
15	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90
16	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90
17	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80
18	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80
19	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	9.00	9.00
20	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	9.00	9.00
21	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	9.00	9.00
22	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	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
23	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	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
24	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	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
25	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	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
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	10.00	10.00
27	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	10.00	10.00
28	8.00	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	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
29	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	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
30	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	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00

Clearing Prices for auctions organized in November 2022 for downward Fast Tertiary Reserve were between 8 lei/hMW and 12 lei/hMW, in most time intervals (40.14%), the Clearing Price was 8 lei/hMW. The maximum price of 12 lei/hMW was registered in 1.39% of time intervals.



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