



Transelectrica®
Societate Administrată în Sistem Dualist

MARKET MONITORING REPORT

Ancillary Services

March 2023

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 86,57% 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: Hidroelectrica S.A. (C661/2022), LJG GSE Gamma (C651/2022), Termoficare Oradea (C777/2022), OPCOM SA *), total contracted quantity includes also the energy traded by Transelectrica on DAM, IDM and BM.

*) The acquisitions were made based on Government Emergency Ordinance nr. 153 of November 11, 2022 for amending and supplementing Government Emergency Ordinance no. 27/2022 on the measures applicable to final customers in the electricity and natural gas market between 1 April 2022 and 31 March 2023, as well as for amending and supplementing certain normative acts in the field of energy and amending Government Emergency Ordinance no. 119/2022 amending and supplementing Government Emergency Ordinance no. 27/2022 on measures applicable to final customers in the electricity and natural gas market between 1 April 2022 and 31 March 2023, as well as for amending and supplementing certain normative acts in the field of energy.

Ancillary Services



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Statistic Data

	Average Prices [lei/hMW] and Costs [lei]			
	Average weighted prices [lei/hMW]	Contracted services costs [lei]	Penalties for unfulfilled contracted services [lei]	Total costs Ancillary Services [lei]
Reserves				
Secondary regulation on / off consumption peak *	78.76	20,584,340.00	1,200.00	20,583,140.00
Fast Tertiary Regulation Upward	40.47	15,164,600.00	10,350.00	15,154,250.00
Fast Tertiary Regulation Downward	12.46	1,595,904.00	6,902.00	1,589,002.00
Slow Tertiary Regulation Upward	0.00	0.00	0.00	0.00
Network losses (OPCOM**)	455.81	31,162,014.60	0.00	31,162,014.60
Network losses (total)	465.47	39,190,310.94	0.00	39,190,310.94

	Quantities [hMW/h]							Participants	
	Reserves				Available regulation energy			Number	HHI
	Requested	Contracted	Realized	Not realized	average	min	max		
	*500,00/500,00	*394,90/320,87	*394,85/320,87	*0,05/0,00	*396.08/322.06	*350/248	*432/430		
	504.31	504.31	503.98	0.33				2	6032
	183.85	172.51	171.58	0.93				8	5567
	0.00	0.00	0.00	0.00				5	4449
	0.00	0.00	0.00	0.00				0	0
	92	92	92	0.00				4	9259
	0	0	0	0.00					

* Secondary regulation band on / off peak

Note:

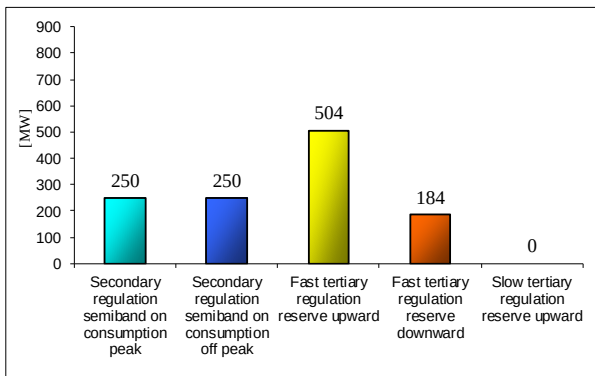
The average prices were calculated by deviding the total Ancillary Services to realized quantities

The network losses were contracted with:

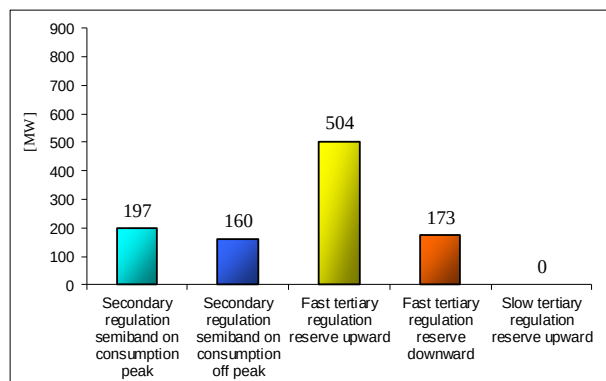
Hidroelectrica (C661/2022), LJJ GSE Gamma (C651/2022), Termoficare Oradea (C777/2022), OPCOM SA **)

**) The acquisitions were made based on Government Emergency Ordinance 153/2022.

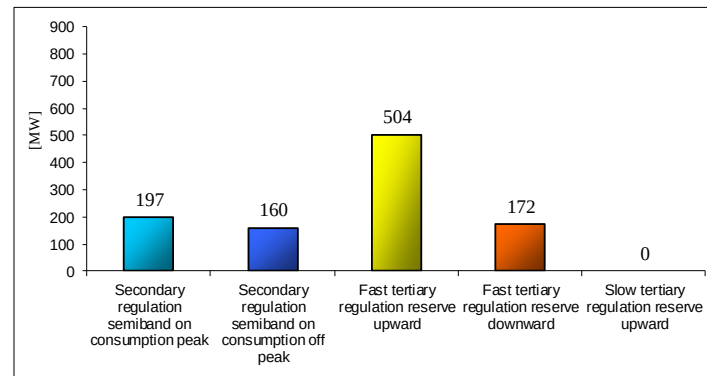
Average requested quantities [hMW/h]



Average contracted quantities [hMW/h]



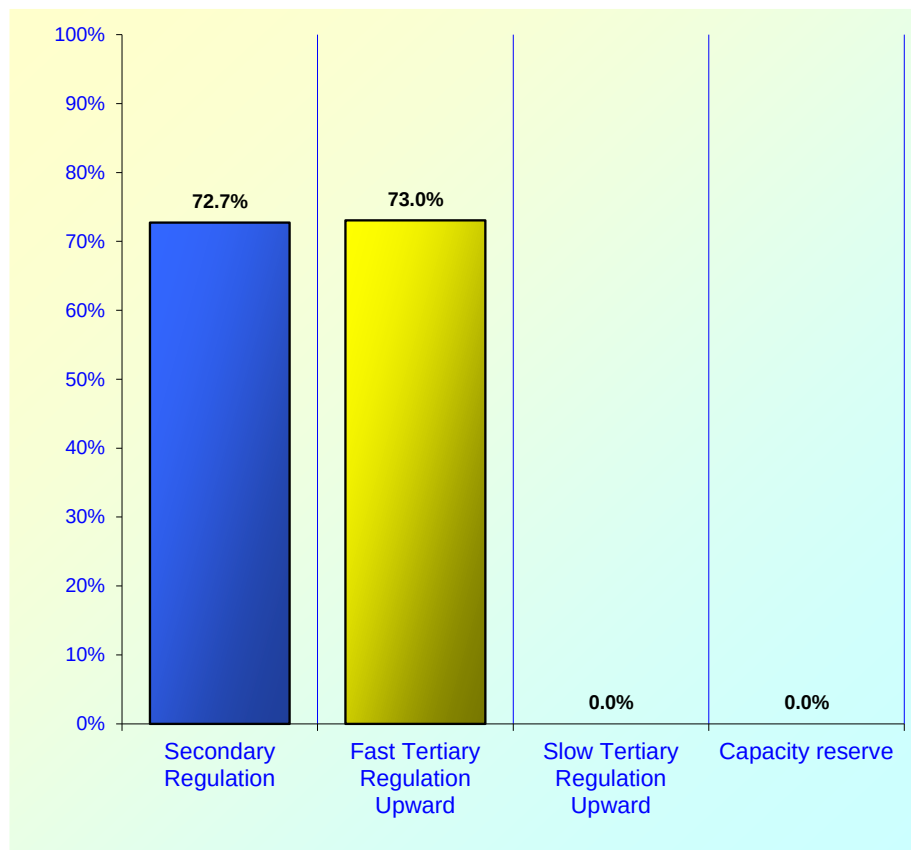
Average realized quantities [hMW/h]



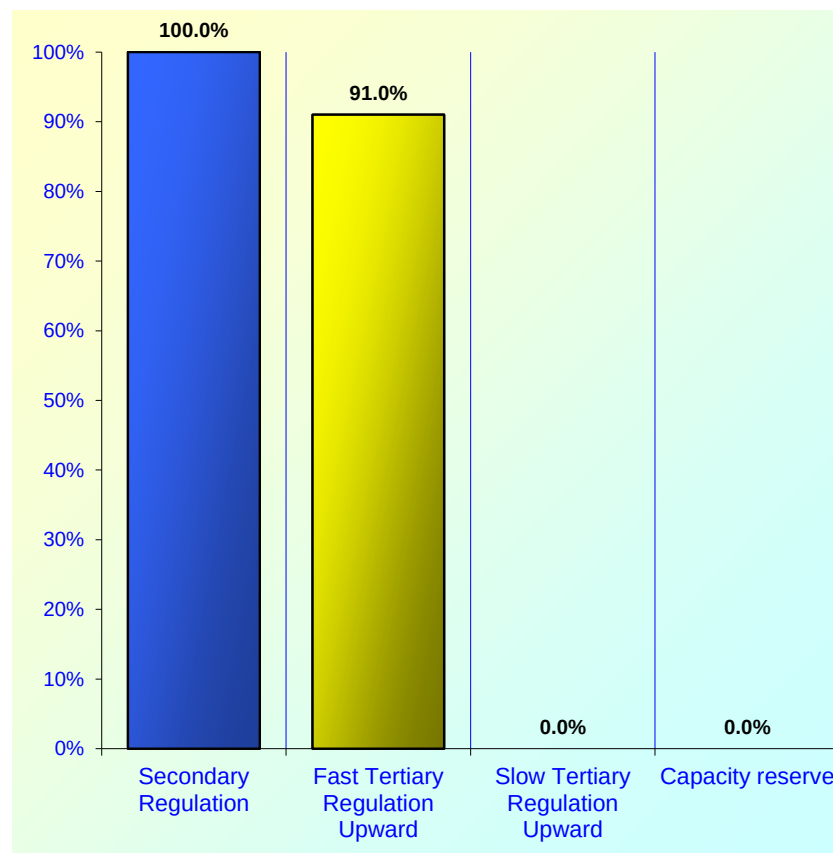
In March 2023, Ancillary Services contracts were concluded as a result of daily tenders organized by C.N.T.E.E. Transelectrica S.A. Necessary quantities to be purchased for Secondary Band Reserve and Upward Fast Tertiary Reserve remained at the level of the previous month, the quantities for Downward Fast Tertiary Reserve increased. In the case of Slow Tertiary Reserve, no tenders were held.

Market share of the most significant Ancillary Services Market Participants

C1 (%) on type of regulation

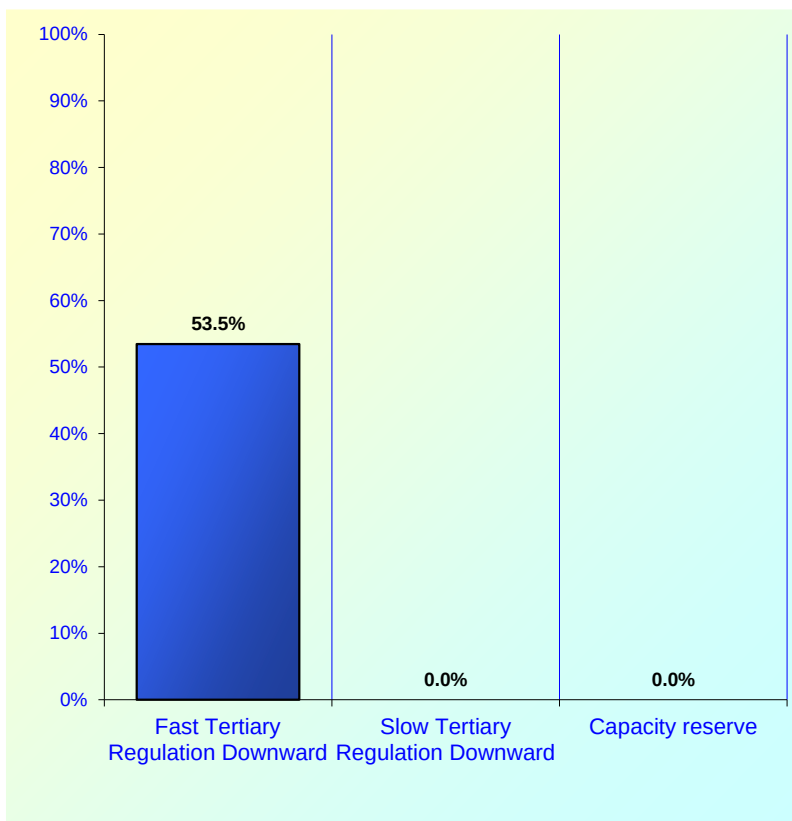


C3 (%) on type of regulation

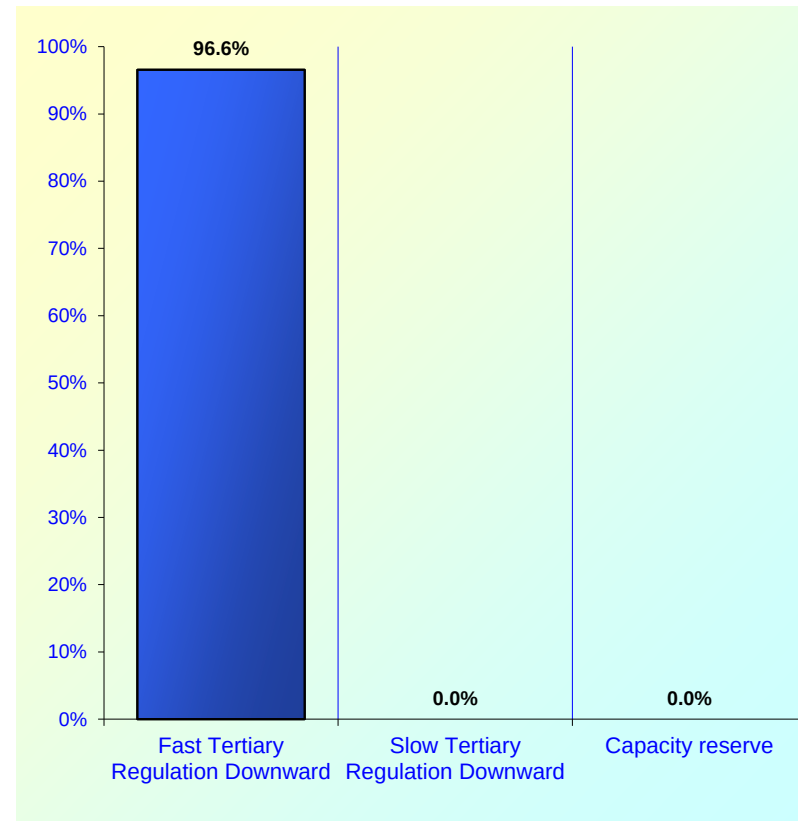


Market share of the most significant Ancillary Services Market Participants

C1 (%) on type of regulation



C3 (%) on type of regulation



[illegible]

Public



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Ancillary Services

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

Fast Tertiary Reserve - Upward	March 2023																										
	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	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	
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	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	40.00	29.00	40.00	
4	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	
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	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	40.00	29.00	40.00	
7	29.00	29.00	29.00	29.00	29.00	29.00	29.00	40.00	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	29.00	40.00	
8	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	
9	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	
10	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	40.00	40.00	40.00	50.00	50.00	50.00	50.00	50.00	40.00	35.00	50.00	
11	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	40.00	40.00	40.00	50.00	50.00	50.00	50.00	50.00	40.00	35.00	50.00	
12	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	40.00	40.00	40.00	50.00	50.00	50.00	50.00	50.00	40.00	35.00	50.00	
13	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	40.00	40.00	40.00	50.00	50.00	50.00	50.00	50.00	40.00	35.00	50.00	
14	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	40.00	40.00	40.00	50.00	50.00	50.00	50.00	50.00	40.00	35.00	50.00	
15	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	40.00	40.00	40.00	50.00	50.00	50.00	50.00	50.00	40.00	35.00	50.00	
16	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	40.00	40.00	40.00	50.00	50.00	50.00	50.00	50.00	40.00	35.00	50.00	
17	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	40.00	40.00	40.00	50.00	50.00	50.00	40.00	40.00	40.00	35.00	50.00	
18	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	40.00	40.00	40.00	50.00	50.00	50.00	50.00	50.00	40.00	35.00	50.00	
19	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	40.00	40.00	40.00	50.00	50.00	50.00	50.00	50.00	40.00	35.00	50.00	
20	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	40.00	40.00	40.00	50.00	50.00	50.00	50.00	50.00	40.00	35.00	50.00	
21	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	40.00	40.00	40.00	50.00	50.00	50.00	50.00	50.00	40.00	35.00	50.00	
22	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	40.00	40.00	40.00	50.00	50.00	50.00	50.00	50.00	40.00	35.00	50.00	
23	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	40.00	40.00	40.00	50.00	50.00	50.00	50.00	50.00	40.00	35.00	50.00	
24	35.00	35.00	35.00	35.00	35.00	35.00	35.00	40.00	50.00	50.00	50.00	40.00	40.00	40.00	40.00	40.00	40.00	50.00	50.00	50.00	50.00	50.00	50.00	40.00	35.00	50.00	
25	35.00	35.00	35.00	35.00	35.00	35.00	35.00	50.00	50.00	50.00	50.00	40.00	40.00	40.00	40.00	40.00	40.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	35.00	50.00	
26	35.00	35.00	35.00	0.00	35.00	35.00	50.00	50.00	50.00	50.00	50.00	40.00	40.00	40.00	40.00	40.00	40.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	35.00	50.00	
27	35.00	35.00	35.00	35.00	35.00	35.00	50.00	50.00	50.00	50.00	50.00	40.00	40.00	40.00	40.00	40.00	40.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	35.00	50.00	
28	35.00	35.00	35.00	35.00	35.00	35.00	50.00	50.00	50.00	50.00	50.00	40.00	40.00	40.00	40.00	40.00	40.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	35.00	50.00	
29	35.00	35.00	35.00	35.00	35.00	35.00	50.00	50.00	50.00	50.00	50.00	40.00	40.00	40.00	40.00	40.00	40.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	35.00	50.00	
30	35.00	35.00	35.00	35.00	35.00	35.00	50.00	50.00	50.00	50.00	50.00	40.00	40.00	40.00	40.00	40.00	40.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	35.00	50.00	
31	35.00	35.00	35.00	35.00	35.00	35.00	50.00	50.00	50.00	50.00	50.00	40.00	40.00	40.00	40.00	40.00	40.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	35.00	50.00	

Clearing Prices for auctions organized in March 2023 for upward Fast Tertiary Reserve were between 29 lei/hMW and 50 lei/hMW, in most time intervals (42.4%), the Clearing Price was 40 lei/hMW. The maximum price of 50 lei/hMW was registered in 154 of time intervals (20.73%).

Ancillary Services

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

Fast Tertiary Reserve - Downward Day	March 2023																								
	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	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
2	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
3	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
4	10.00	10.00	10.00	10.00	10.00	12.00	12.00	12.00	10.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	10.00	10.00	10.00	12.00	12.00	12.00	12.00	12.00
5	10.00	10.00	10.00	10.00	10.00	12.00	12.00	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	12.00	12.00	12.00	12.00	12.00
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
7	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
8	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
9	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	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
11	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	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
12	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	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
13	15.00	15.00	15.00	15.00	15.00	15.00	15.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
14	15.00	15.00	15.00	15.00	15.00	15.00	15.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	15.00	17.00
15	15.00	15.00	15.00	15.00	15.00	15.00	15.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	15.00	17.00
16	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
17	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	10.00	10.00	10.00	12.00	12.00	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	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
20	15.00	15.00	15.00	15.00	15.00	15.00	15.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	15.00	17.00
21	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
22	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
23	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
24	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
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	12.00	12.00	12.00	0.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
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
28	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
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
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
31	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 March 2023 for downward Fast Tertiary Reserve were between 8 lei/hMW and 20 lei/hMW, in most time intervals (38.36%), the Clearing Price was 10 lei/hMW. The maximum price of 20 lei/hMW was registered in 17 of time intervals (2.29%).

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