

MARKET MONITORING REPORT

Ancillary Services

October 2018

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 100% from TSO's necessary volume.
- The report contains requested quantities by Transelectrica (through NDC), contracted quantities based on ANRE decisions, bid amounts and realized quantities.
- 8 participants have supplied Ancillary Services: CE Hunedoara S.A., CE Oltenia S.A., Hidroelectrica S.A., Romgaz S.A., Electrocentrale Galati, Electrocentrale Bucuresti, SC Bepco S.R.L., Electro Energy Sud.
- Transmission network losses have been contracted through CMBC market with: SN Nuclearelectrica (C123/2017), Renovatio Trading (C6, C7/2018), EDS (C65, C66/2018), CE Oltenia (C256/2017), Next Energy Partners (C22, C23, C24/2018), total contracted quantity includes also the energy traded by Transelectrica on DAM, IDM and BM.

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 *	78.20	28,060,000.00	1,235,520.00	26,824,480.00
Fast Tertiary Regulation	43.19	22,255,000.00	11,928.00	22,243,072.00
Slow Tertiary Regulation	20.70	10,796,977.50	0.00	10,796,977.50
Network losses	206.50	8,415,082.69	0.00	8,415,082.69
Network losses (total)**	258.03	20,077,985.69	0.00	20,077,985.69

Quantities [hMW/h]

Requested	Contracted	Realized	Not realized	Available regulation energy			Participants	
				Reserves	average	min	max	Number
*500,00/450,00	*500,00/450,00	*489,97/439,39	*10,03/10,61	*504,87/457,28	*410/360	*600/826	3	7290
691.41	691.41	691.21	0.20				7	8073
700.00	700.00	700.00	0.00				3	5027
55	55	55	0.00				5	2714

* Secondary regulation band on /off peak

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

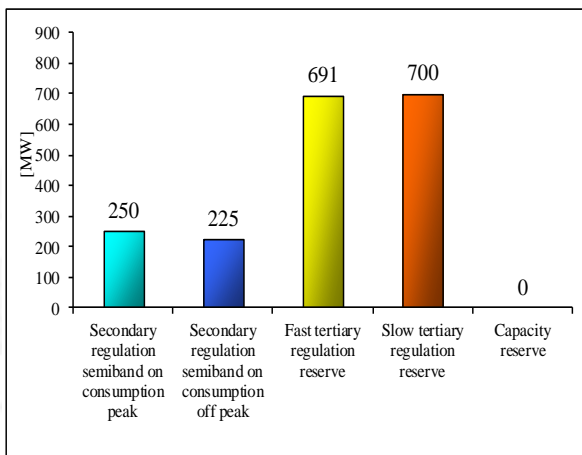
Note:

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

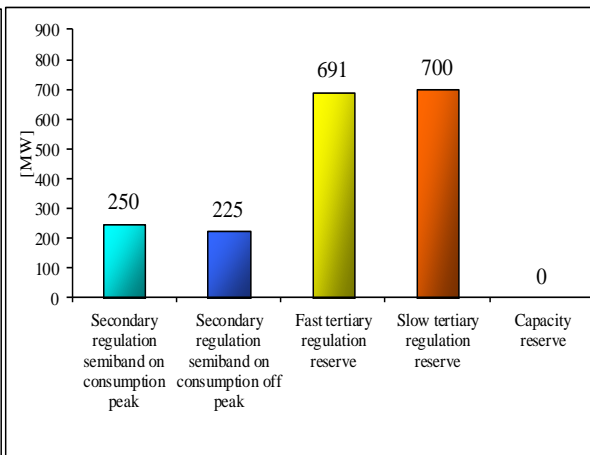
The network losses were contracted with SN Nuclearelectrica (C123/2017), Renovatio Trading

(C6, C7/2018), EDS (C65, C66/2018), CE Oltenia (C256/2017), Next Energy Partners (C22, C23, C24/2018).

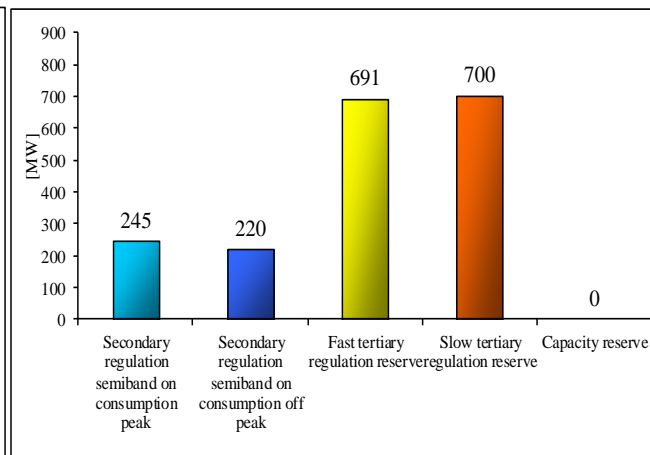
Average requested quantities [hMW/h]



Average contracted quantities [hMW/h]

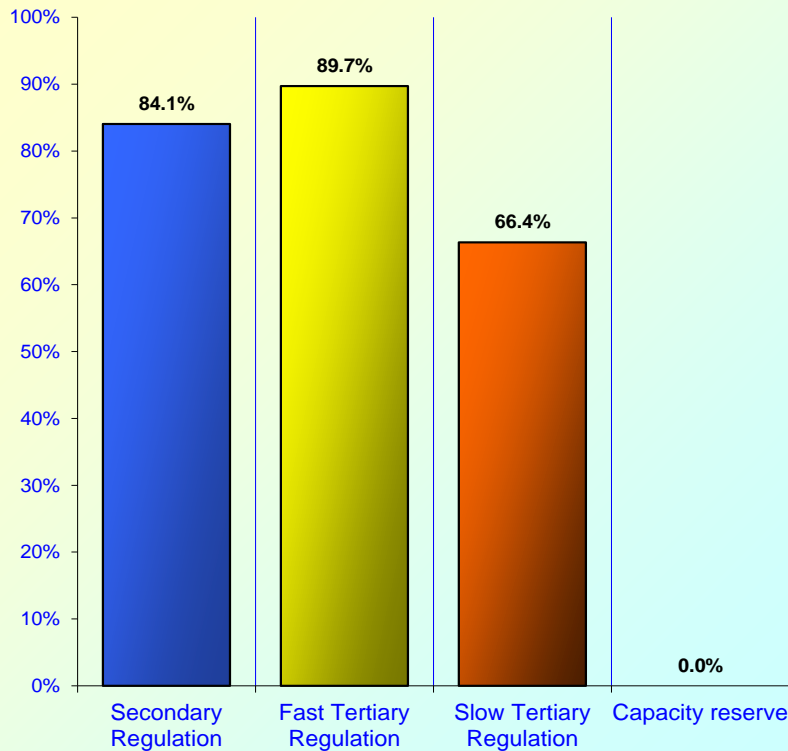


Average realized quantities [hMW/h]

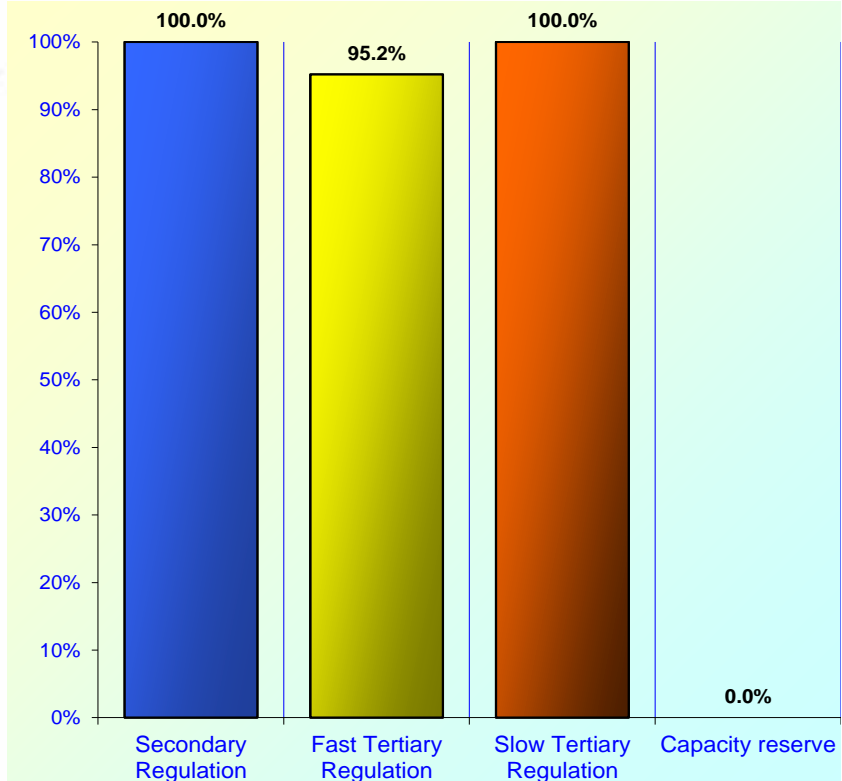


Market share of the most significant Ancillary Services Market Participants

C1 (%) on type of regulation



C3 (%) on type of regulation



Public

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