

MARKET MONITORING REPORT

Ancillary Services

December 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 90,18% 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. NRA's Decision no. 1911/28.11.2018 established regulated hourly values for slow tertiary reserve for participants operating on alternative fuel, for the time period 01 December 2018 ÷ 31 March 2019, in compliance with Government decision 773/2018.
- 8 participants have supplied Ancillary Services: CE Hunedoara SA, CE Oltenia SA, Hidroelectrica SA, Romgaz SA, Electrocentrale Galati, Bepco SRL, Electro Energy Sud, Veolia Energie Iasi.
- 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 *	78.64	24,591,140.00	837,760.00	23,753,380.00
Fast Tertiary Regulation	64.51	26,911,724.15	94,931.69	26,816,792.46
Slow Tertiary Regulation	17.91	10,257,900.00	0.00	10,257,900.00
Network losses	206.50	8,403,787.27	0.00	8,403,787.27
Network losses (total)**	304.63	29,759,138.92	0.00	29,759,138.92

Quantities [hMW/h]

Reserves	Reserves			Available regulation energy			Participants		
	Requested	Contracted	Realized	Not realized	average	min	max	Number	HHI
Secondary regulation on / off consumption peak *	*500,00/450,00	*436,58/396,22	*428,01/390,28	*8,57/5,94	*446,46/411,45	*320/284	*540/512	3	6435
Fast Tertiary Regulation	691.67	559.69	558.70	1.00				7	6462
Slow Tertiary Regulation	770.00	770.00	770.00	0.00				3	4458
Network losses	55	55	55	0.00				5	2714

* Secondary regulation band on /off peak

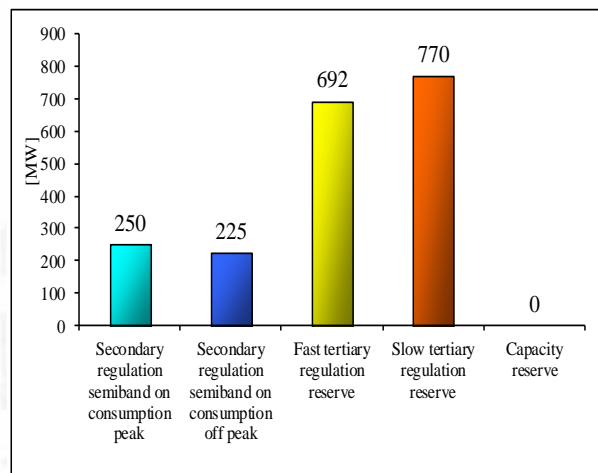
** Including contracted quantities on CMBC, DAM, BM and IDM

Note:

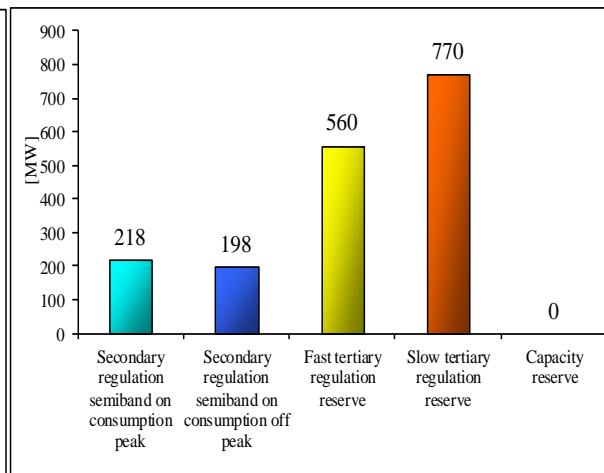
The average prices were calculated by deviding the total Ancillary Services to realized quantities

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).

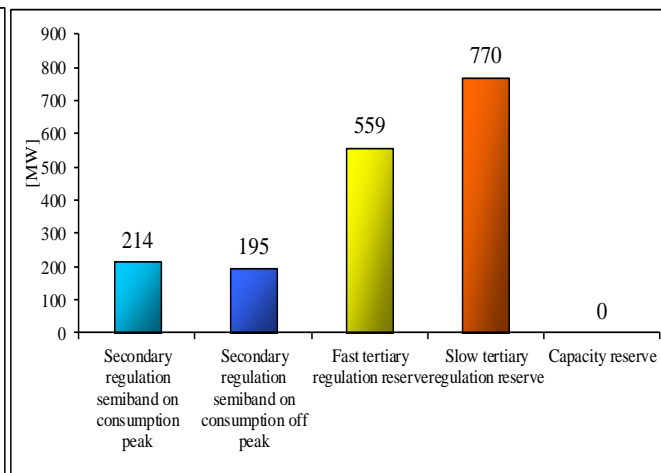
Average requested quantities [hMW/h]



Average contracted quantities [hMW/h]

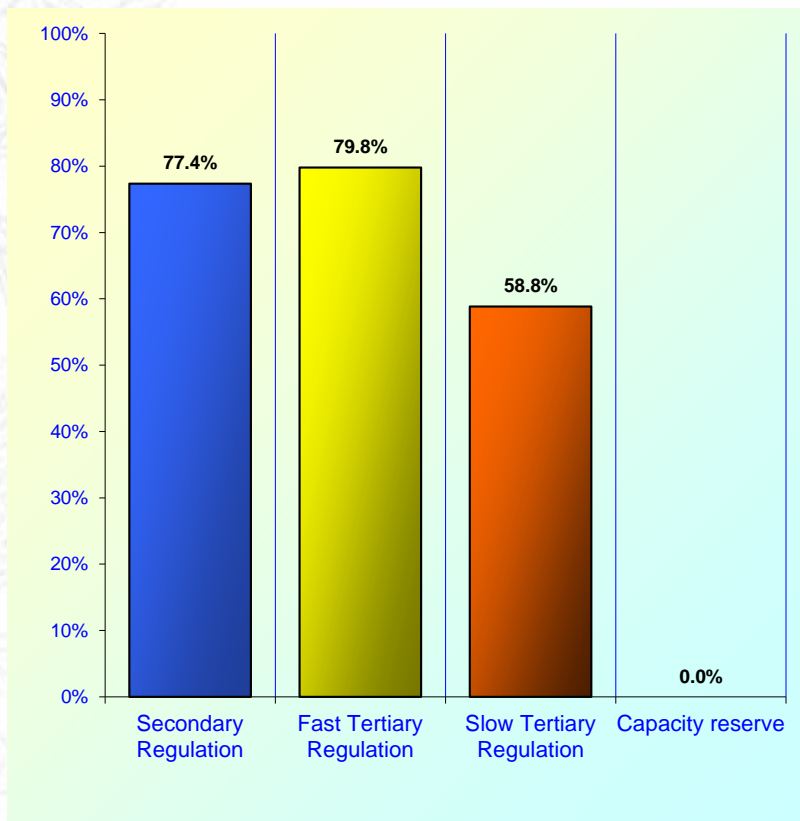


Average realized quantities [hMW/h]

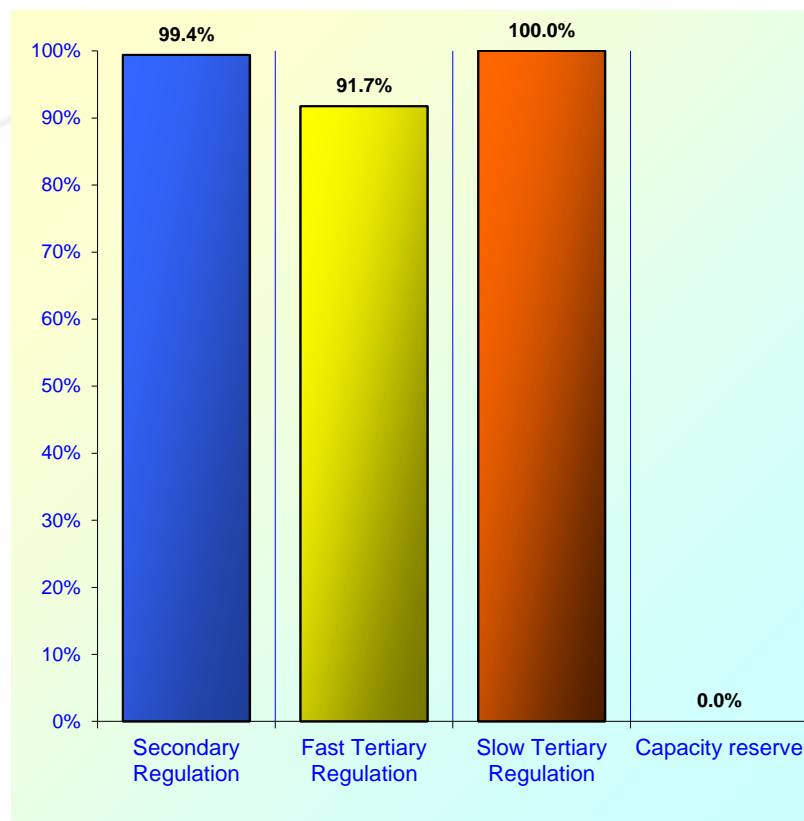


Market share of the most significant Ancillary Services Market Participants

C1 (%) on type of regulation



C3 (%) on type of regulation



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