

MARKET MONITORING REPORT

Ancillary Services

June 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.
- 9 participants have supplied Ancillary Services: CE Hunedoara S.A., CE Oltenia S.A., Hidroelectrica S.A., SC Romgaz S.A., Veolia Energie Prahova, 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), Romgaz (C147/2017), Tinmar Energy SA (C167, C168/2017), Renovatio Trading (C228, C229, C230/2017), Monsson Trading (C235, C236, C237/2017), EDS (C274, C275, C276/2017), CE Oltenia (C256/2017), Tinmar Energy (C256, C262/2017), 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 *	69.45	23,547,000.00	5,542.86	23,541,457.14
Fast Tertiary Regulation	37.77	19,017,000.00	418,763.82	18,598,236.18
Slow Tertiary Regulation	13.71	6,914,160.00	37,271.00	6,876,889.00
Network losses	210.64	9,812,376.00	0.00	9,812,376.00
Network losses (total)**	226.16	19,559,120.44	0.00	19,559,120.44

Quantities [hMW/h]

Requested	Reserves			Available regulation energy			Participants	
	Contracted	Realized	Not realized	average	min	max	Number	HfH
*500,00/450,00	*500,00/450,00	*500,00/449,90	*0,00/0,10	*524,97/475,13	*500/412	*614/512	3	5375
691.67	691.67	683.94	7.72				8	6901
700.00	700.00	696.74	3.26				4	3963
65	65	65	0.00				8	1783

* Secondary regulation band on /off peak

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

Note:

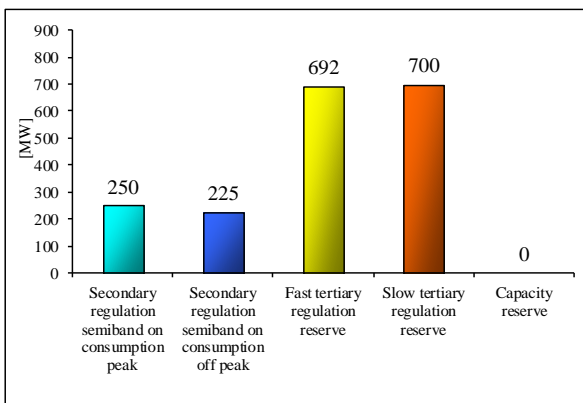
The average prices were calculated by deviding the total Ancillary Services to realized quantities

The network losses were contracted with SN Nuclearelectrica (C123/2017), Romgaz (C147/2017), Tinmar Energy SA (C167, C168/2017), Renovatio

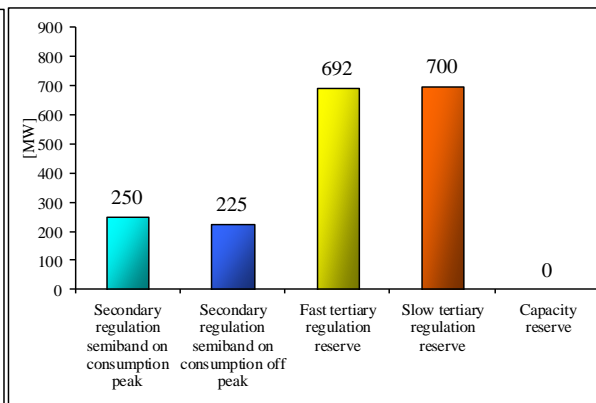
Trading (C228, C229, C230/2017), Monsson Trading (C235, C236, C237/2017), EDS (C274, C275, C276/2017), CE Oltenia (C256/2017),

Tinmar Energy (C262/2017).

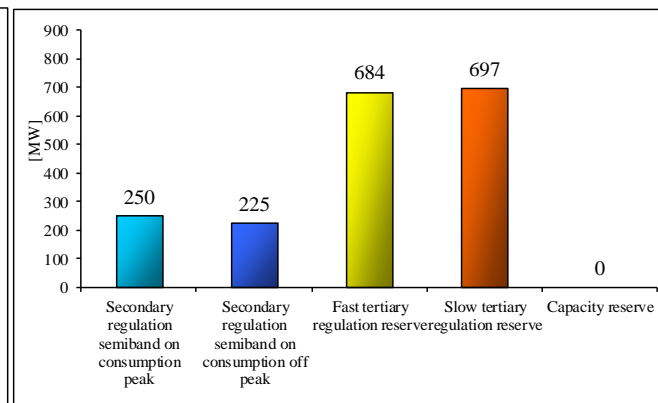
Average requested quantities [hMW/h]



Average contracted quantities [hMW/h]

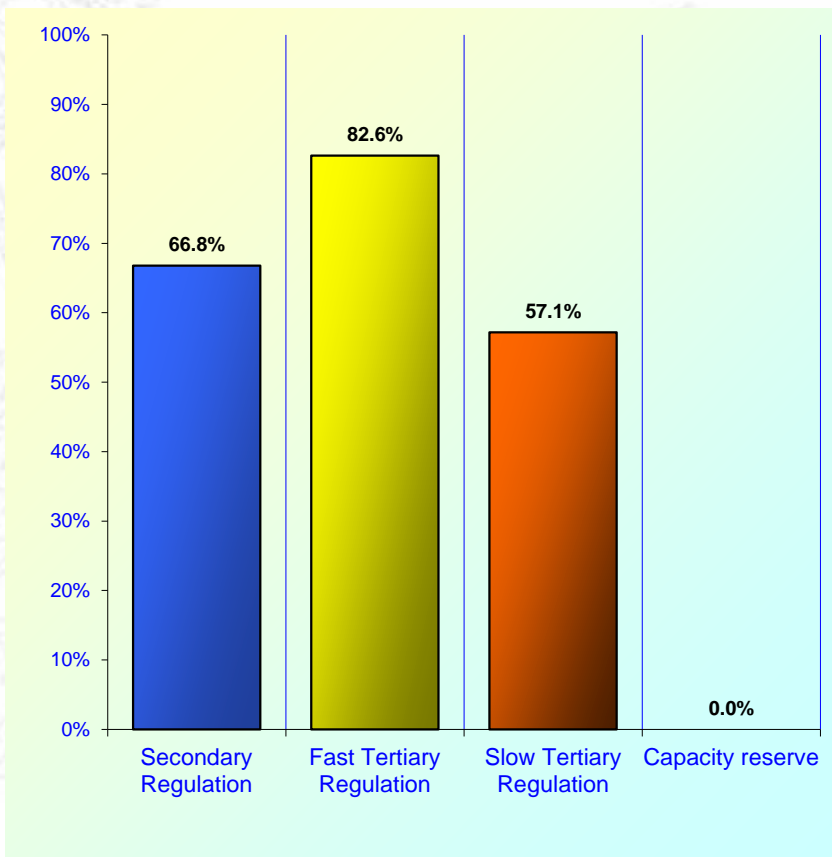


Average realized quantities [hMW/h]

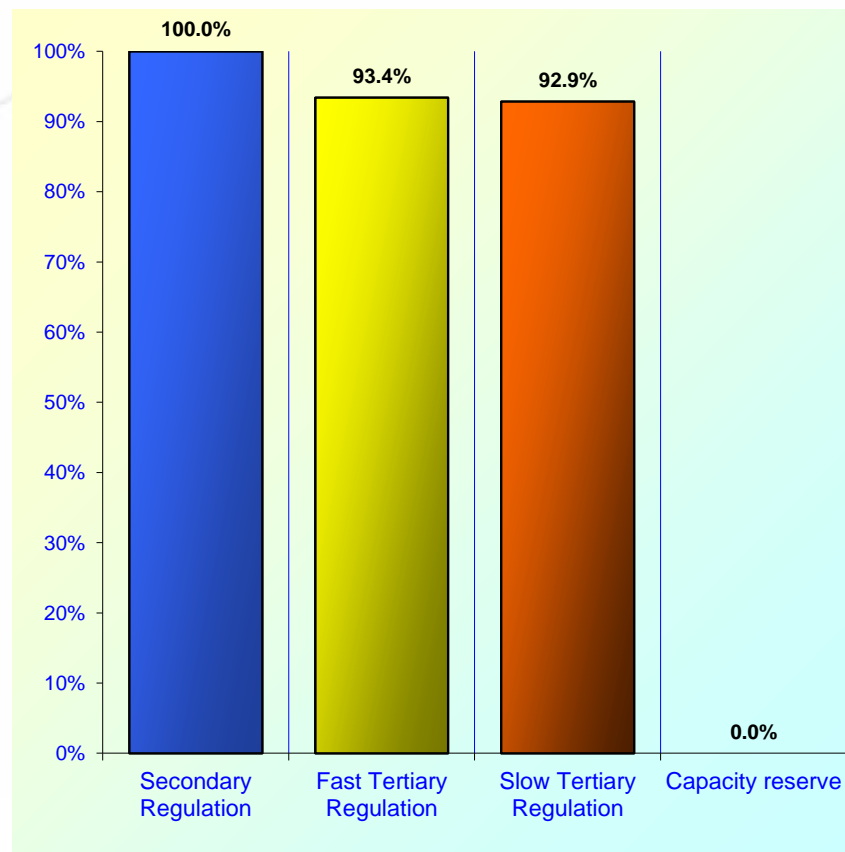


Market share of the most significant Ancillary Services Market Participants

C1 (%) on type of regulation



C3 (%) on type of regulation



Public

Email: Monitorizare.Piata@transelectrica.ro
Fax:021 3035630