



Transelectrica®
Societate Administrată în Sistem Dualist

MARKET MONITORING REPORT

Ancillary Services

March 2017



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Societate Administrată în Sistem Dualist

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



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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).



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General Remarks

- The ANRE Decision no 1034/22.06.2016 in compliance with Government decision 138/2013 and Government decision 941/2014, established hourly values of secondary, fast tertiary and slow tertiary reserves ensured through bilateral contracts, contracts with regulated quantities and prices, settled between Transelectrica and CE Hunedoara SA, the producer that holds qualified units for Ancillary Services supplying, for the time period 01 July 2016 ÷ 30 June 2017.
- ANRE Decisions no. 2044, 2045, 2046/20.12.2016, 185, 186, 187/17.02.2017 established regulated hourly values of slow tertiary reserves between Transelectrica and participants operating on alternative fuel, for the time period 03 January – 15 March 2017, in compliance with Government decisions 844/2016 and 55/2017.
- 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 SA, CE Oltenia SA, Hidroelectrica SA, Romgaz SA, Veolia Energie Iasi, Veolia Energie Prahova, Electrocentrale Galati, Electrocentrale Bucuresti and Electro Energy Sud.
- Transmission network losses have been contracted through CMBC market with: CE Oltenia (C101/2016), A Energy IND (C235/2016), Hidroelectrica SA (C231/2016), SN Nuclearelectrica (C246/2016), MWH Trade Invest SRL (C36, C37, C38/2017), Three Wings SRL (C42, C43, C44/2017), total contracted quantity includes also the energy traded by Transelectrica on DAM, IDM and BM.

Ancillary Services



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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 * | 57.68 | 19,148,187.00 | 78,044.00 | 19,070,143.00 |
| Fast Tertiary Regulation | 42.38 | 24,486,574.80 | 99,425.51 | 24,387,149.29 |
| Slow Tertiary Regulation | 20.48 | 12,125,178.60 | 0.00 | 12,125,178.60 |
| Network losses (CMBC) | 140.73 | 9,211,794.15 | 0.00 | 9,211,794.15 |
| Network losses (total) | 176.59 | 15,347,930.11 | 0.00 | 15,347,930.11 |

Quantities [hMW/h]

| Requested | Reserves | | | Available regulation energy | | | Participants | |
|---------------|---------------|----------------|--------------|-----------------------------|----------|----------|--------------|------|
| | Contracted | Realized | Not realized | average | min | max | Number | HHI |
| 500,00/400,00 | 500,00/400,00 | *498,92/399,20 | *1,08/0,80 | *504,55/406,25 | *422/371 | *526/522 | 4 | 4870 |
| 776.04 | 776.04 | 774.40 | 1.64 | | | | 7 | 5994 |
| 796.90 | 796.90 | 796.90 | 0.00 | | | | 5 | 3996 |
| 80 | 80 | 80 | 0.00 | | | | 6 | 2284 |
| 0 | 0 | 0 | 0.00 | | | | 0 | 0 |

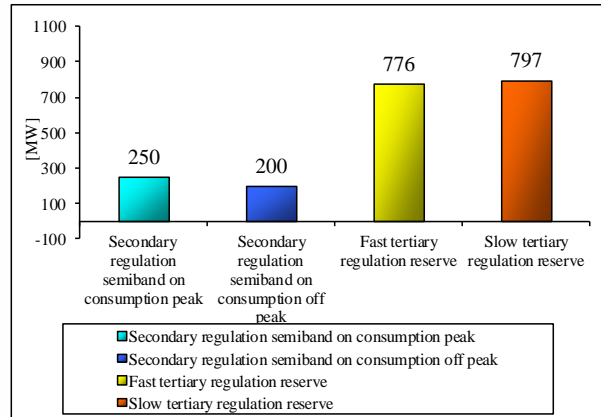
* Secondary regulation band on /off peak

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

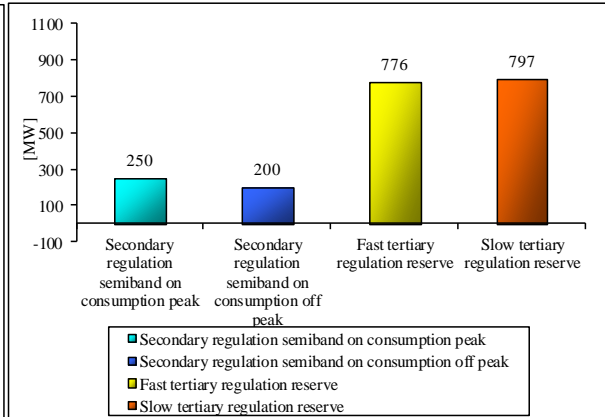
Note:

The average prices were calculated by deviding the total Ancillary Services to realized quantities
The network losses were contracted with CE Oltenia (C101/2016), A Energy Ind (C235/2016), Hidroelectrica SA (C231/2016), SN Nuclearelectrica (C246/2016), MWH Trade Invest SRL (C36, C37, C38/2017), Three Wings SRL (C42, C43, C44/2017).

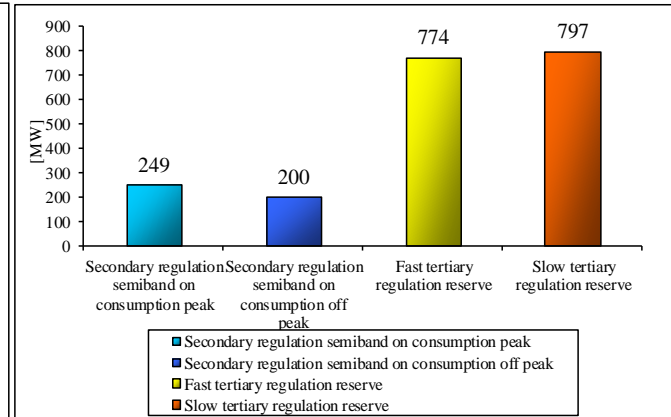
Average requested quantities [hMW/h]



Average contracted quantities [hMW/h]



Average realized quantities [hMW/h]



Ancillary Services

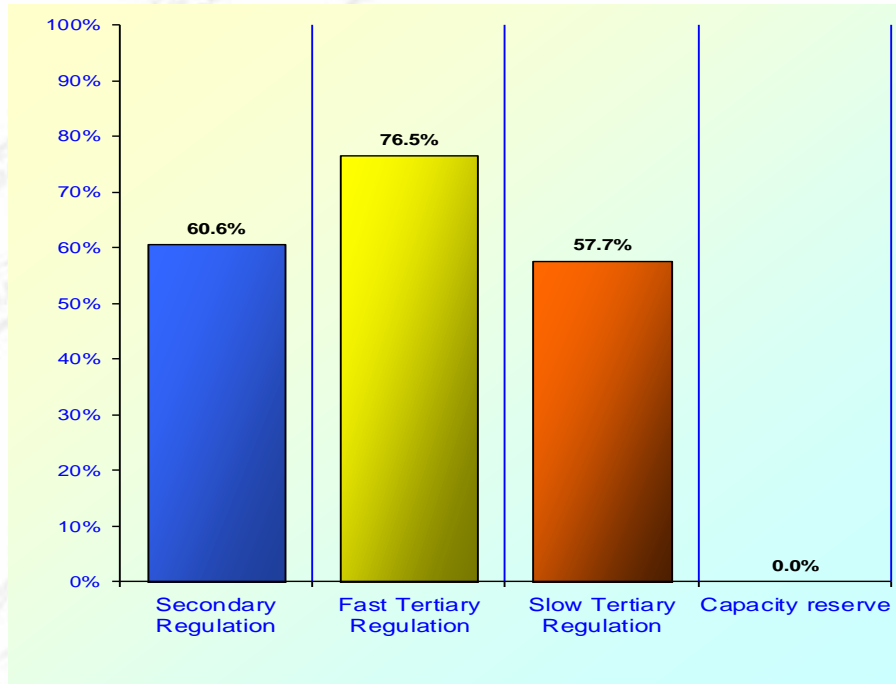


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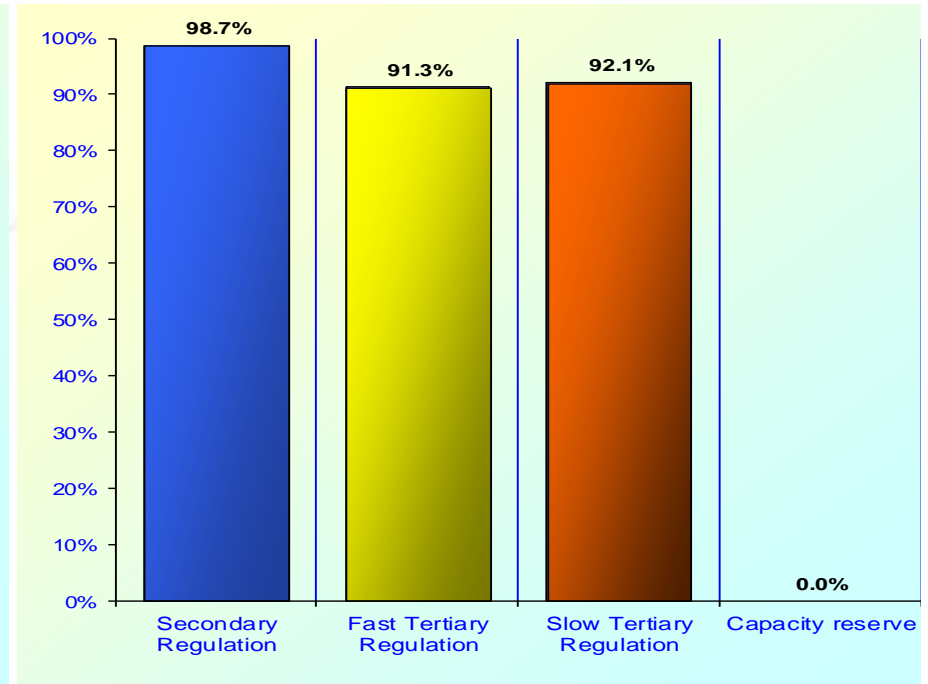
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Market share of the most significant Ancillary Services Market Participants

C1 (%) on type of regulation



C3 (%) on type of regulation





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