

**REPORT ON RESULTS OF MONITORING THE  
ROMANIAN ELECTRICITY MARKET  
JUNE 2012**

*- This document represents an unauthorised translation of the Romanian document -*

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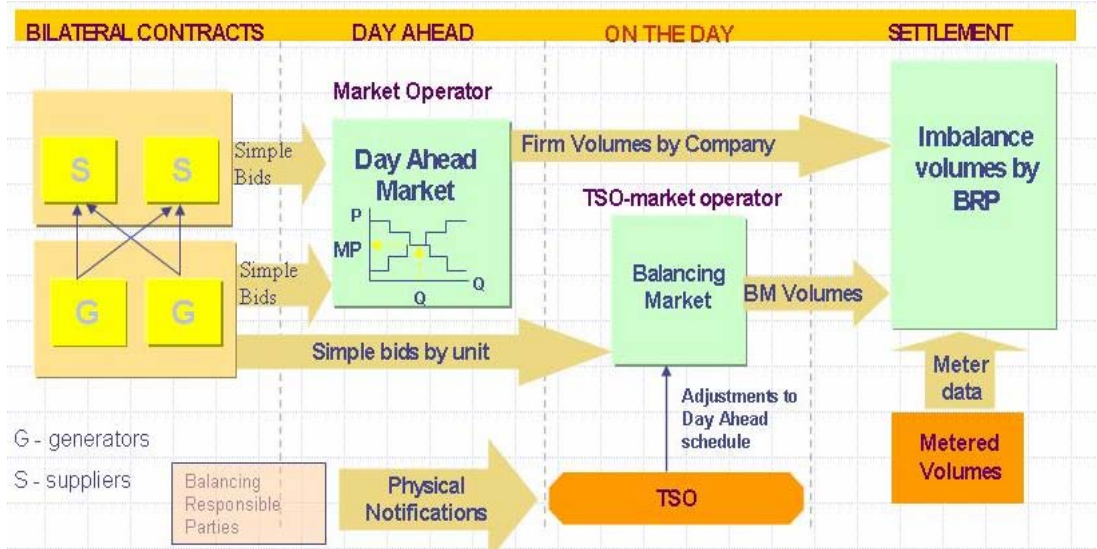
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## **I. MAIN EVENTS IN THE DEVELOPMENT OF THE ROMANIAN ELECTRICITY MARKET**

- GD 365/1998 – vertically integrated monopol – RENEL – was split into separated distribution and supply companies (SC Electrica SA) and generation companies (SC Termoelectrica SA and SC Hidroelectrica SA) were established within a new company - CONEL SA. Two other electricity generators (SN Nuclearelectrica SA and RAAN) were separately established;
- transmission, system services and market administration were separately organised, within CONEL SA;
- the relationships between parties within the electricity sector were settled based on contracts;
- GD 122/2000 – electricity market opens at 10%;
- GD 627/2000 – CONEL holding is dissolved;
- September 2000 – launch of the compulsory electricity spot market in Romania, administrated by OPCOM and organized based on pool model;
- GD 1342/2001 – SC Electrica SA splits in 8 subsidiaries for electricity distribution and supply;
- GD 1524/2002 – SC Termoelectrica SA reorganizes in several separate legal entities for generation;
- July 2005 – launch of the new market model, based on:
  - voluntary spot market, with both sides offers and bilateral settlement;
  - compulsory balancing market, with TSO as single counterparty;
  - financial responsibilities of the balancing are allocated to the BRP;
- GD 644/2005 – electricity market opens at 83.5%;
- November 2005 – launch of the green certificates market;
- December 2005 – launch of the centralized market for bilateral contracts;
- March 2007 – launch of the centralized market for partially standardized bilateral contracts with continuous negotiation;
- GD 638/2007 – fully opening of electricity and gas markets;
- July 2007 – rules for capacity market have been established.
- July 2008 – launch of the mechanism of direct debit and guarantee for electricity transactions on the day-ahead market (OPCOM as central counterparty).
- August 2008 – process of legal unbundling of distribution and supply companies has been concluded;
- August/October 2010 – launch of bilateral coordinated auctions for capacity allocation on interconnections with Hungary and Bulgaria;
- July 2011 - launch of the intraday market;
  - GD 930/2010 – SC Electrica Furnizare SA had been established through merger of the former incumbent suppliers Electrica Furnizare Muntenia Nord, Electrica Furnizare Transilvania Nord and Electrica Furnitare Transilvania Sud;
- June 2012 - GD 1024/2011, Complexul Energetic Oltenia SA had been established in a dual system through merger of the former SNLO Tg. Jiu SA , SC Complexul Energetic Turceni SA, SC Complexul Energetic Rovinari SA and SC Complexul Energetic Craiova SA

## II. WHOLESALE ELECTRICITY MARKET

### 1. Structure of the wholesale electricity market



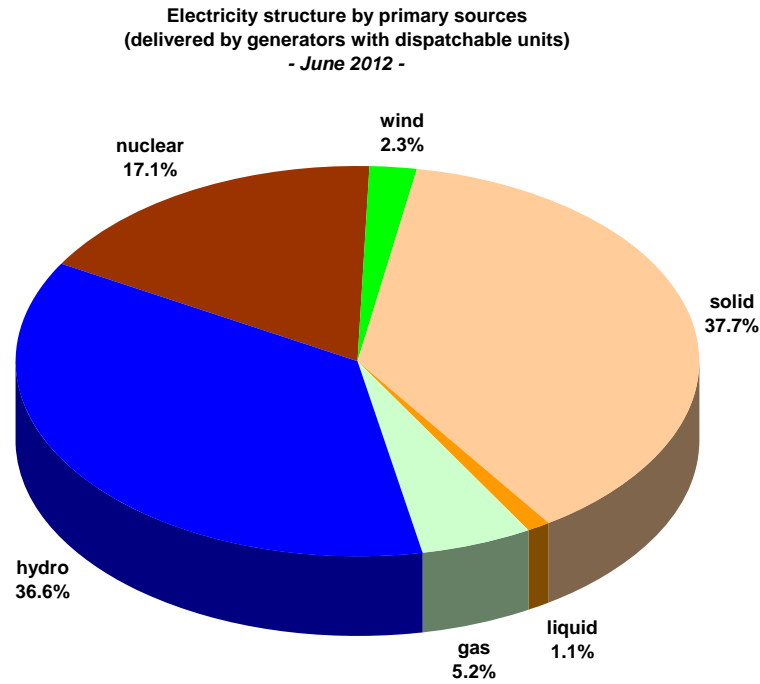
### 2. Participants on the wholesale electricity market

The market participants\* acting on the electricity market in June 2012 are presented below split into categories:

| No.                                                                                                          | Name                                               | No. | Name                                                                      | No.                            | Name                                 |                               |
|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-----|---------------------------------------------------------------------------|--------------------------------|--------------------------------------|-------------------------------|
| <b>A Electricity generators operating dispatching units</b>                                                  |                                                    |     | <b>F Electricity Suppliers acting exclusively on the wholesale market</b> |                                |                                      |                               |
| 1                                                                                                            | SC CET Bacău SA                                    | 1   | SC Adedero G.P. Energy SRL                                                | 1                              | SC Alpiq RomEnergie SRL              |                               |
| 2                                                                                                            | SC CET Gârnova SA                                  | 2   | Alpiq Energy SE                                                           | 2                              | SC Alpiq RomIndustries SRL           |                               |
| 3                                                                                                            | MUNICIPIUL IAȘI                                    | 3   | SC BIT-REEN SRL                                                           | 3                              | SC Alro SA                           |                               |
| 4                                                                                                            | SC CET Oradea SA                                   | 4   | SC Beny Alex SRL                                                          | 4                              | SC Arcelormittal Galati SA           |                               |
| 5                                                                                                            | SC Cernavoda Power SRL                             | 5   | CEZ as                                                                    | 5                              | SC Arelco Distribuție SRL            |                               |
| 6                                                                                                            | SC Dalkia Termo Prahova SRL                        | 6   | SC CEZ Trade Romania SRL                                                  | 6                              | SC Biol Energy SRL                   |                               |
| 7                                                                                                            | SC EDP Renewables România SRL                      | 7   | SC Dalkia Romania SRL                                                     | 7                              | SC EFE Energy SRL                    |                               |
| 8                                                                                                            | SC Electrocentrale București SA                    | 8   | Danske Commodities/s Aarhus                                               | 8                              | SC EGL Gas & Power Romania SA        |                               |
| 9                                                                                                            | SC Electrocentrale Galati SA                       | 9   | E&T ENERGIE Handelsgesellschaft                                           | 9                              | SC Electrica SA                      |                               |
| 10                                                                                                           | SC Electrocentrale Paroșeni SA                     | 10  | SC Edison Trading SpA                                                     | 10                             | SC Electricom SA                     |                               |
| 11                                                                                                           | SC Enel Green SRL                                  | 11  | SC Enel Trade Romania SRL                                                 | 11                             | SC Electromagnetica SA               |                               |
| 12                                                                                                           | SC Lukoil Energy & Gaz Romania SRL                 | 12  | Energy Financing Team Switzerland                                         | 12                             | SC Energotrans SRL                   |                               |
| 13                                                                                                           | SC Romconstruc Top SRL                             | 13  | SC Energy Market Consulting SRL                                           | 13                             | SC Energy Distribution Services SRL  |                               |
| 14                                                                                                           | SC Termica SA Suceava                              | 14  | SC Ergon Power&Gaz SRL                                                    | 14                             | SC Energy Financing Team Romania SRL |                               |
| 15                                                                                                           | SC Termoelectrica SA                               | 15  | SC Entrex Services SRL                                                    | 15                             | SC Energy Holding SRL                |                               |
| 16                                                                                                           | SC Tomis Team SRL                                  | 16  | E.ON Energy Trading SE                                                    | 16                             | SC Energy Network SRL                |                               |
| <b>AI Electricity generators operating dispatching units and acting also as suppliers on the competitive</b> |                                                    |     | 17                                                                        | SC Ezpada SRL                  | 17                                   | SC Enex SRL                   |
| 17                                                                                                           | RAAN                                               | 18  | Ezpada SRO                                                                | 18                             | SC Ennet Grup SRL                    |                               |
| 18                                                                                                           | SN Nuclearelectrica SA                             | 19  | Freepoint Commodities Europe Ltd                                          | 19                             | SC Enol Grup SA                      |                               |
| 19                                                                                                           | SC OMV Petrom SA                                   | 20  | Gazprom Marketing & Trading                                               | 20                             | SC EURO-PEC SA                       |                               |
| 20                                                                                                           | SC CE Craiova SA                                   | 21  | GEN-I trgovanje in prodaja elektricne energije                            | 21                             | SC Fidelis Energy SRL                |                               |
| 21                                                                                                           | SC CE Rovinari SA                                  | 22  | GEN-I Bukarest Electricity Trading and Sales                              | 22                             | SC Gaz Sud Furnizare SRL             |                               |
| 22                                                                                                           | SC CE Turceni SA                                   | 23  | SC Getica 98 COM SRL                                                      | 23                             | SC GDF SUEZ Energy Romania SA        |                               |
| 23                                                                                                           | SC CET Arad SA                                     | 24  | Holding Slovenske Elektrarne d.o.o.                                       | 24                             | SC General Com Invest SRL            |                               |
| 24                                                                                                           | SC Electrocentrale Deva SA                         | 25  | SC KBS Threenergies SRL                                                   | 25                             | SC ICCO Energy SRL                   |                               |
| 25                                                                                                           | SC Hidroelectrica SA                               | 26  | SC Lord Energy SRL                                                        | 26                             | ILIOTOMI Impex GRPA                  |                               |
| 26                                                                                                           | SC OMV Petrom Power Park SRL                       | 27  | SC Midest Energy SRL                                                      | 27                             | SC ICPE Electrocond Technologies SA  |                               |
| <b>B Transmission System Operator</b>                                                                        |                                                    |     | 28                                                                        | SC MVM Partner Bucharest SRL   | 28                                   | SC Luxten LC SA               |
| 1                                                                                                            | CN TRANSELECTRICA SA                               | 29  | OMV Trading GmbH                                                          | 29                             | Magyar Aramszolgaltato KFT           |                               |
| <b>C DAM, Bilateral Contracts Market, Green Certificates Market Operator</b>                                 |                                                    |     | 30                                                                        | RWE Supply Trading GmbH        | 30                                   | SC Monsson Energy Trading SRL |
| 1                                                                                                            | SC OPCOM SA                                        | 31  | Repower Trading Ceska Republica                                           | 31                             | OET Obedineni Energinii Targovtsi    |                               |
| <b>D Distribution network operators</b>                                                                      |                                                    |     | 32                                                                        | SC Repower Vanzari Romania SRL | 32                                   | SC RE Power Generation SRL    |
| 1                                                                                                            | SC CEZ Distribuție SA                              | 33  | SC Romelectro SA                                                          | 33                             | SC Renovation Trading SRL            |                               |
| 2                                                                                                            | SC ENEL Distribuție Banat SA                       | 34  | SC Rudnap SRL                                                             | 34                             | SC Repower Furnizare Romania SRL     |                               |
| 3                                                                                                            | SC ENEL Distribuție Dobrogea SA                    | 35  | Statkraft Markets GmbH                                                    | 35                             | SC Romenergy Industry SRL            |                               |
| 4                                                                                                            | SC E.ON Moldova Distribuție SA                     | 36  | SC Statkraft Romania SRL                                                  | 36                             | SC TEN Transilvania Energie SRL      |                               |
| 5                                                                                                            | SC ENEL Distribuție Muntenia SA                    | 37  | SC Verbund Trading România SRL                                            | 37                             | SC Tinmar Ind SA                     |                               |
| 6                                                                                                            | SC FDEE Electrica Distribuție Muntenia Nord SA     |     |                                                                           | 38                             | SC Transformer Supply SRL            |                               |
| 7                                                                                                            | SC FDEE Electrica Distribuție Transilvania Sud SA  |     |                                                                           | 39                             | SC Transenergo Com SA                |                               |
| 8                                                                                                            | SC FDEE Electrica Distribuție Transilvania Nord SA |     |                                                                           |                                |                                      |                               |
| <b>E Incumbent suppliers</b>                                                                                 |                                                    |     |                                                                           |                                |                                      |                               |
| 1                                                                                                            | SC CEZ Vanzare SA                                  |     |                                                                           |                                |                                      |                               |
| 2                                                                                                            | SC ENEL Energie SA                                 |     |                                                                           |                                |                                      |                               |
| 3                                                                                                            | SC E.ON Energie Romania SA                         |     |                                                                           |                                |                                      |                               |
| 4                                                                                                            | SC ENEL Energie Muntenia SA                        |     |                                                                           |                                |                                      |                               |
| 5                                                                                                            | SC FDEE Electrica Furnizare SA                     |     |                                                                           |                                |                                      |                               |

\*) The electricity market participants report to ANRE technical/commercial data according to the *Methodology of wholesale electricity market monitoring for assessing the competition level on market and preventing the abuse of dominant position*, approved by ANRE Order no. 35/2006. The table does not include the Balancing Responsible Parties (BRP). The BRP updated list is published on the Balancing Market Operator website - [www.ope.ro](http://www.ope.ro).

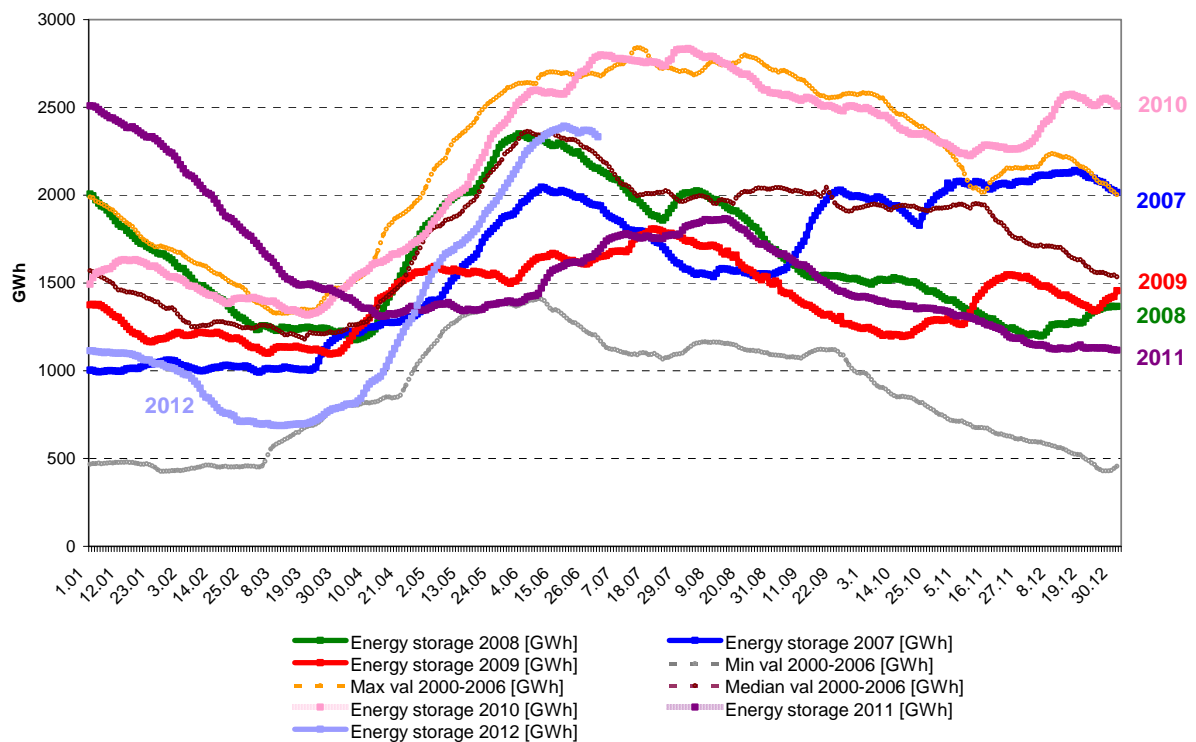
### 3. Generation structure of National Energy System on resources types



Source: Monthly reports of generators – processed by MG

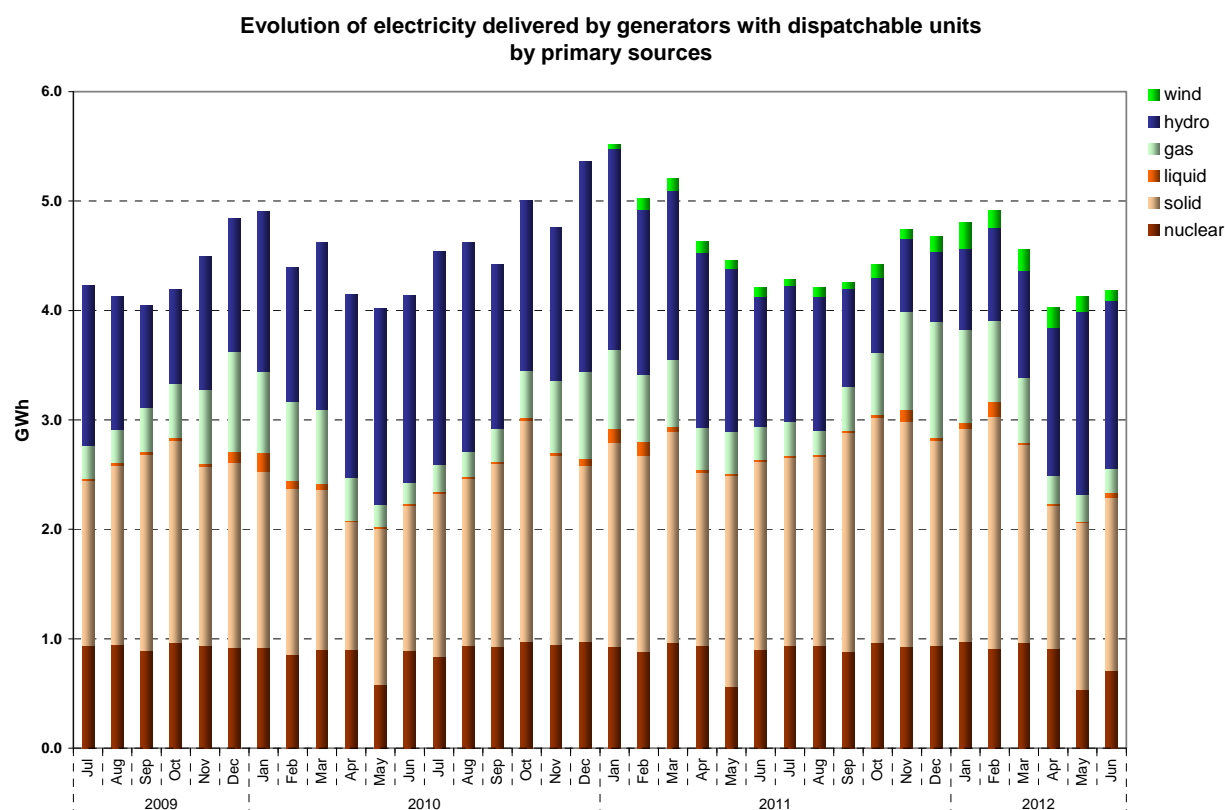
The electricity generated from hydro resources and the energy stored in the main water reservoirs are directly correlated. The following graph presents the evolution of daily amounts of energy storage during the last 4 years and compared to minimum, maximum and median values from 2000-2006.

Yearly evolution of daily values of energy stored in the main water reservoirs



Source: Monthly reports of S.C. Hidroelectrica S.A. – processed by MG

The evolution of delivered electricity structure, during the last 3 years, is the following:



Source: Monthly reports of generators – processed by MG

The following table presents the main data regarding the physical balance of electricity for June 2012 compared to data for similar period of 2011:

| No. | INDICATOR                                                  | MU   | June 2011 | June 2012 | %           | Jan-Jun 2011 | Jan-Jun 2011 | %           |
|-----|------------------------------------------------------------|------|-----------|-----------|-------------|--------------|--------------|-------------|
| 0   | 1                                                          | 2    | 3         | 4         | $5=4/3*100$ | 3            | 4            | $5=4/3*100$ |
| 1   | Generated electricity                                      | TWh  | 4.53      | 4.50      | 99.34       | 31.38        | 28.91        | 92.13       |
| 2   | Delivered electricity                                      | TWh  | 4.21      | 4.18      | 99.28       | 29.04        | 26.62        | 91.67       |
| 3   | Import                                                     | TWh  | 0.08      | 0.10      | 125.00      | 0.34         | 0.74         | 217.65      |
| 4   | Export                                                     | TWh  | 0.18      | 0.10      | 55.56       | 2.27         | 0.67         | 29.52       |
| 5   | Internal consumption                                       | TWh  | 4.10      | 4.19      | 102.20      | 27.11        | 26.69        | 98.45       |
| 6   | Consumption of household consumers on the regulated market | TWh  | 0.87      | 0.88      | 101.15      | 5.87         | 6.02         | 102.55      |
| 7   | Consumption of non-households consumption                  | TWh  | 2.70      | 2.75      | 101.85      | 17.09        | 16.88        | 98.77       |
| 7.1 | <i>on the regulated market</i>                             | TWh  | 0.62      | 0.66      | 106.45      | 4.42         | 4.43         | 100.22      |
| 7.2 | <i>on the competitive market</i>                           | TWh  | 2.08      | 2.09      | 100.48      | 12.67        | 12.44        | 98.18       |
| 8   | Transmission–Injection component                           | TWh  | 4.14      | 4.09      | 98.79       | 28.45        | 26.98        | 94.83       |
| 9   | Transmission–Extraction component                          | TWh  | 4.23      | 4.15      | 98.11       | 29.06        | 27.34        | 94.08       |
| 10  | Actual transmission grid losses                            | TWh  | 0.0811    | 0.0787    | 97.04       | 0.5244       | 0.5199       | 99.14       |
| 11  | Heat generated for delivery                                | Tcal | 641.06    | 572.15    | 89.25       | 10148.62     | 9196.99      | 90.62       |
| 12  | Heat in co-generation                                      | Tcal | 555.89    | 486.67    | 87.55       | 8529.48      | 7938.09      | 93.07       |

Note: 1. Data shown in the table neither include the energy produced by the generators who do not own dispatchable units (positions 1 & 2) nor the energy delivered to the consumers directly connected to the power plants (positions 6 & 7).

2. The imported/exported quantities do not comprise transits and cross border exchange of CN Tranelectrica SA with neighbor countries in order to ensuring the balance of the national energy system.

3. The electricity considered for transmission tariff – injection component do not comprise the electricity sold by generators for covering the transmission losses.

4. The transmission tariff – extraction component and the system service tariff are applied for the same quantity of electricity

#### ***4. Transactions' structure on the wholesale electricity market***

The size of wholesale market depends on the sum of all transactions performed by the market players, exceeding the quantities physically transmitted from generation to consumption; the total transactions include also resale transactions made in order to match the contractual obligations and to obtain financial benefit.

Therefore, the wholesale electricity market includes: regulated contracts and bilateral negotiated contracts between generators and suppliers, regulated contracts for covering the network losses, bilateral negotiated contracts generator-generator and supplier-supplier, as well as contracts concluded on centralized markets: CMBC (centralized market of bilateral contracts), CMBC-CN (centralized market of partially standardised bilateral contracts, with continuous negotiation) and on the Power floor of RCE (Romanian Commodities Exchange), transactions on DAM (day-ahead market), on BM (Balancing Market) and Intraday Market (recently introduced).

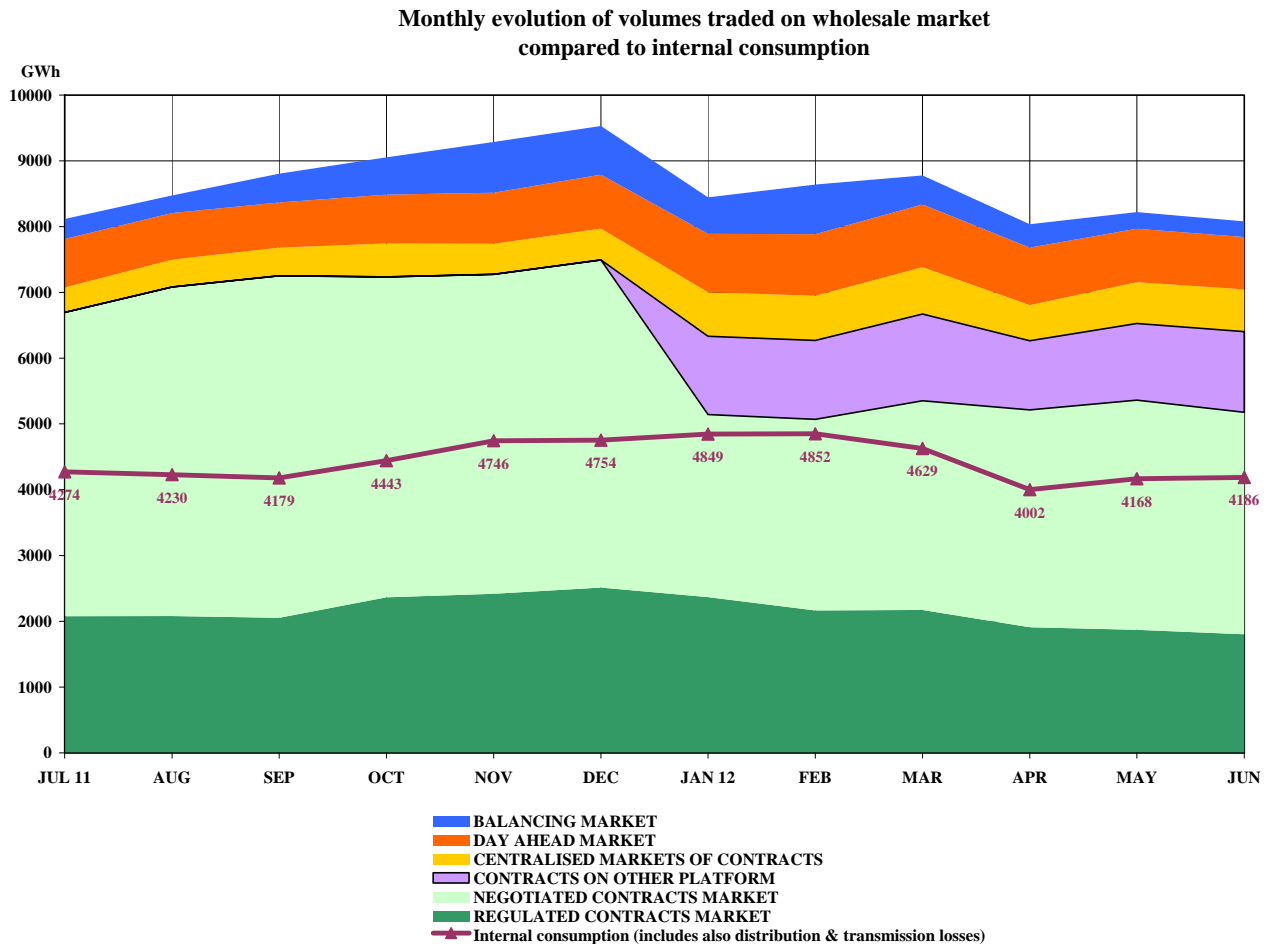
The volumes traded and the average prices on each type of contracts and on the main components of the wholesale market are presented in the following tables for June 2012 compared to the month before and June 2011:

| <b>TRANSACTIONS ON THE WHOLESALE MARKET</b>                                       | <b>May<br/>2012</b> | <b>June<br/>2012</b> | <b>June<br/>2011</b> |
|-----------------------------------------------------------------------------------|---------------------|----------------------|----------------------|
| <b>1. BILATERAL CONTRACTS' MARKET</b>                                             |                     |                      |                      |
| traded volume (GWh)                                                               | <b>6527</b>         | <b>6403</b>          | <b>6784</b>          |
| % from internal consumption (%)                                                   | 177.60              | 177.11               | 165.80               |
| average price (lei/MWh)                                                           | 156.6               | 152.9                | 165.3                |
| <b>1.1. Sales on regulated contracts</b>                                          |                     |                      |                      |
| traded volume (GWh)                                                               | <b>1872</b>         | <b>1802</b>          | <b>2090</b>          |
| % from internal consumption (%)                                                   | 144.18              | 144.95               | 155.00               |
| average price (lei/MWh)                                                           | 44.9                | 43.1                 | 50.9                 |
| <b>1.2. Sales on contracts concluded on other platforms *</b>                     |                     |                      |                      |
| traded volume (GWh)                                                               | <b>1166</b>         | <b>1226</b>          | -                    |
| % from internal consumption (%)                                                   | 204.11              | 203.50               | -                    |
| average price (lei/MWh)                                                           | 24.0                | 25.3                 | -                    |
| <b>1.3. Sales on negotiated contracts**</b>                                       |                     |                      |                      |
| traded volume (GWh)                                                               | <b>3489</b>         | <b>3374</b>          | <b>4694</b>          |
| % from internal consumption (%)                                                   | 186.67              | 184.68               | 170.61               |
| average price (lei/MWh)                                                           | 83.7                | 80.6                 | 114.4                |
| <b>2. EXPORT***</b>                                                               |                     |                      |                      |
| traded volume (GWh)                                                               | <b>85</b>           | <b>96</b>            | <b>184</b>           |
| % from internal consumption (%)                                                   | 158.21              | 158.02               | 209.11               |
| average price (lei/MWh)                                                           | 2.0                 | 2.3                  | 4.5                  |
| <b>3. CENTRALISED MARKETS OF CONTRACTS</b>                                        |                     |                      |                      |
| delivered volume (GWh)                                                            | <b>628</b>          | <b>643</b>           | <b>411</b>           |
| % from internal consumption (%)                                                   | 209.83              | 204.29               | 172.16               |
| average price (lei/MWh)                                                           | 15.1                | 15.4                 | 10.0                 |
| <b>4. DAY AHEAD MARKET</b>                                                        |                     |                      |                      |
| traded volume (GWh)                                                               | <b>813</b>          | <b>797</b>           | <b>640</b>           |
| % from internal consumption (%)                                                   | 178.86              | 183.41               | 206.13               |
| average price (lei/MWh)                                                           | 19.5                | 19.0                 | 15.6                 |
| <b>5. INTRADAY MARKET****</b>                                                     |                     |                      |                      |
| traded volume (GWh)                                                               | <b>0.045</b>        | <b>0.030</b>         | -                    |
| % from internal consumption (%)                                                   | 207.73              | 300.00               | -                    |
| average price (lei/MWh)                                                           | 0.001               | 0.001                | -                    |
| <b>6. BALANCING MARKET</b>                                                        |                     |                      |                      |
| traded volume (GWh)                                                               | <b>254</b>          | <b>237</b>           | <b>339</b>           |
| % from internal consumption (%)                                                   | 6.1                 | 5.7                  | 8.3                  |
| upward volume (GWh)                                                               | <b>98</b>           | <b>131</b>           | <b>253</b>           |
| average negative imbalance price(lei/MWh)                                         | 245.20              | 242.79               | 288.10               |
| downward volume (GWh)                                                             | <b>156</b>          | <b>106</b>           | <b>86</b>            |
| average positive imbalance price (lei/MWh )                                       | 46.94               | 33.89                | 64.36                |
| <b>INTERNAL CONSUMPTION (includes distribution and transmission losses) (GWh)</b> | <b>4168</b>         | <b>4186</b>          | <b>4274</b>          |

|       |      |                                                                                                                                                                                                                                                                                                                                                         |
|-------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note: | *    | After a large consultation process with market participants, starting with January 2012, the contracts concluded on other platforms (such as ICAP, TFS) have been separately identified; before this, these volumes had been comprised within negotiated contracts                                                                                      |
|       | **   | Supply contracts to consumers and export contracts are not included; volumes traded on negotiated contracts do not include the quantities resulted from the processing contracts concluded between the fuel suppliers and the generators, as this activity is not subject of ANRE regulations and not comprised within the market participants' reports |
|       | ***  | Export volumes correspond to the quantities for which CN Tranelectrica SA applied extraction component of transmission tariff for export, which in some cases are different to those reported as traded by participants                                                                                                                                 |
|       | **** | The average monthly price has been calculated based on monthly traded volume and transaction value published by SC Opcom SA                                                                                                                                                                                                                             |

The percentage of electricity quantities from the internal consumption (see table from above) offers a dimensional reference for each of the specified markets. Prices include only the injection component of the transmission tariff, in this way being comparable within a month and making possible the comparison with the previous month.

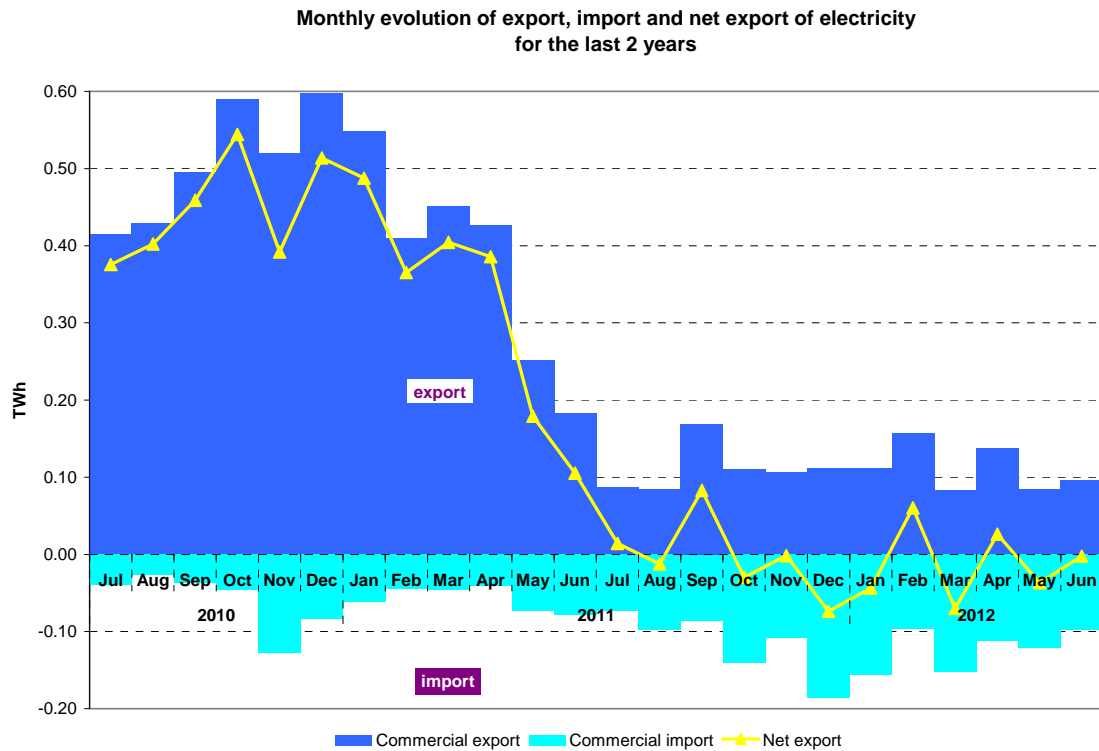
The following graph presents the evolution of the relation between the volumes sold on each market and the estimated internal consumption between July 2011 – June 2012.



Source: Monthly reports of wholesale market participants. SC Opcom SA and CN Transelectrica SA – processed by MG

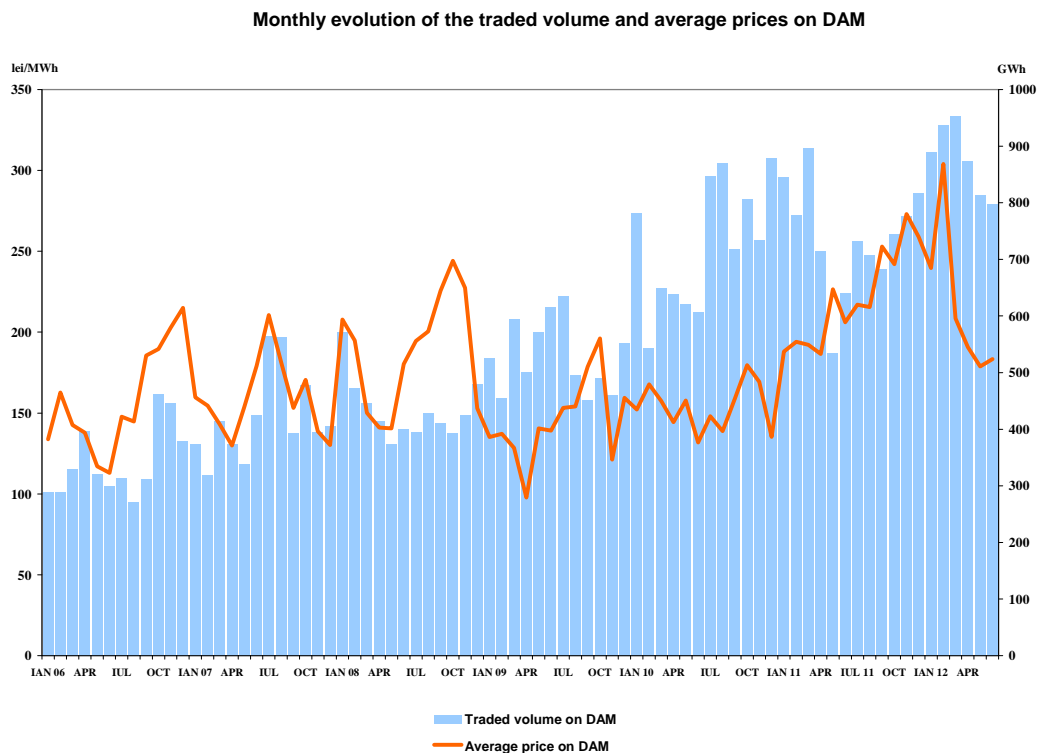
Note: In the above graph, the volumes traded on negotiated contracts' market do not include the export trades

The following graph presents the monthly values of commercial export (quantities for which the extraction component of transmission tariff was applied), commercial import (quantities for which the injection component of transmission tariff was applied) and the net export (export minus import) in the last 24 months:



Source: Monthly reports of CN Traselectrica SA – processed by MG

The following graph presents the volumes and the monthly average prices on DAM starting with January 2006.



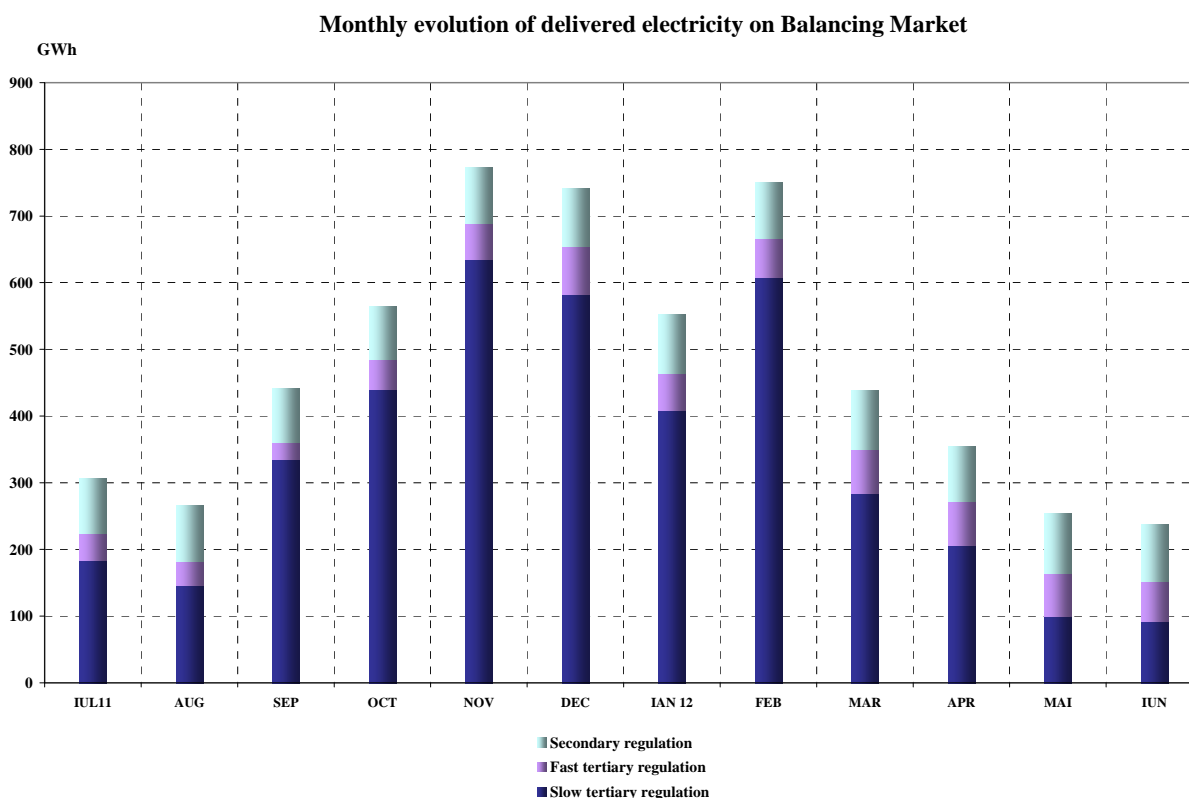
Source: Monthly reports of SC Opcom SA and CN Traselectrica SA – processed by MG

Balancing electricity is determined by the dispatch orders (accepted offers) received by generators. After settlement, the actual electricity delivered by generators on balancing market is determined based on the measured (approved) values; the relation between the accepted and delivered electricity in June 2012 is presented in the following table:

| June 2012                                                  | Dispatch order (GWh) | Delivered electricity (GWh) | Deviation (%) |
|------------------------------------------------------------|----------------------|-----------------------------|---------------|
| <b>Secondary regulation</b>                                | <b>85</b>            | <b>85</b>                   |               |
| <i>upward</i>                                              | 37                   | 37                          |               |
| <i>downward</i>                                            | 48                   | 48                          |               |
| <b>Fast tertiary regulation</b>                            | <b>66</b>            | <b>59</b>                   | <b>11</b>     |
| <i>upward</i>                                              | 31                   | 29                          | 6             |
| <i>downward</i>                                            | 35                   | 30                          | 15            |
| <b>Slow tertiary regulation</b>                            | <b>105</b>           | <b>93</b>                   | <b>11</b>     |
| <i>upward</i>                                              | 71                   | 64                          | 10            |
| <i>downward</i>                                            | 33                   | 29                          | 14            |
| <b>TOTAL</b>                                               | <b>256</b>           | <b>237</b>                  |               |
| <i>upward</i>                                              | 140                  | 131                         |               |
| <i>downward</i>                                            | 116                  | 106                         |               |
| <b>INTERNAL CONSUMPTION</b>                                |                      | <b>4186</b>                 |               |
| <i>% share of traded volumes from internal consumption</i> |                      | <b>5.7%</b>                 |               |

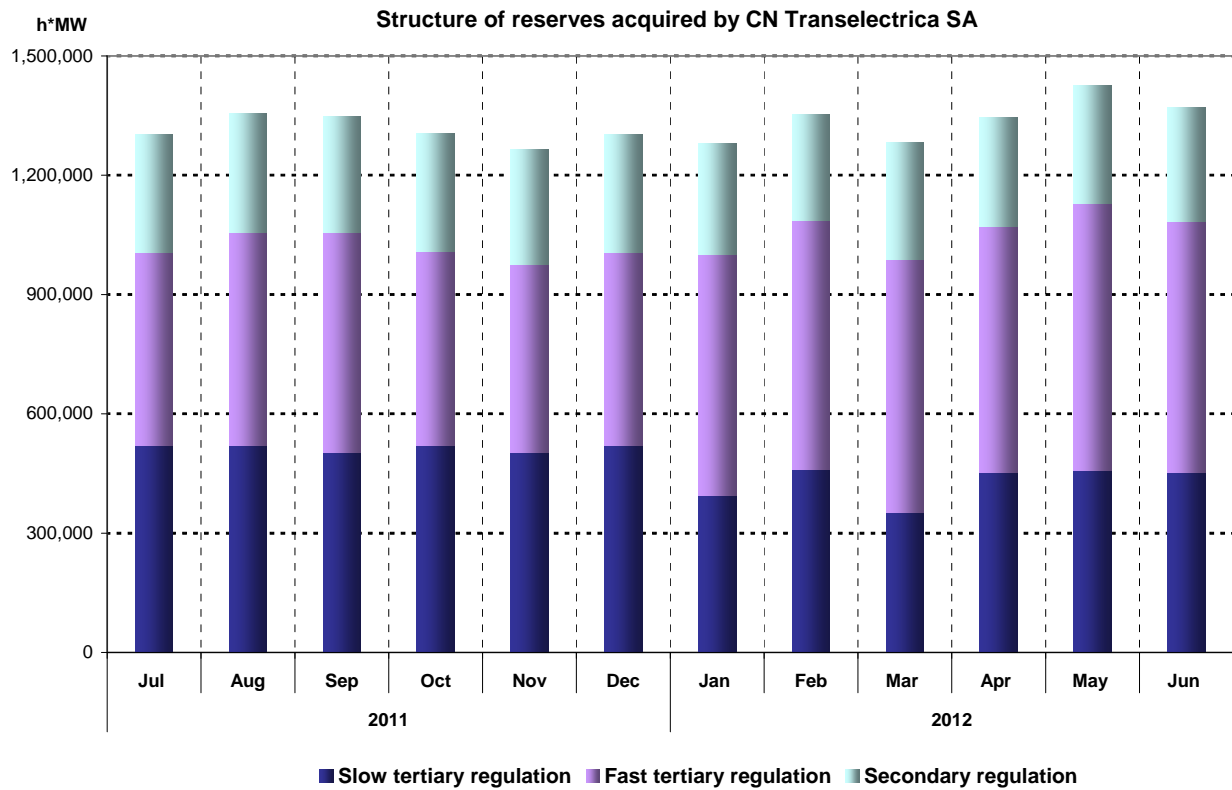
Source: Monthly reports of CN Traselectrica SA – processed by MG

The structure of balancing electricity delivered in the system on each type of regulation starting from July 2011 is presented in the graph below:



Source: Monthly reports of CN Traselectrica SA – processed by MG

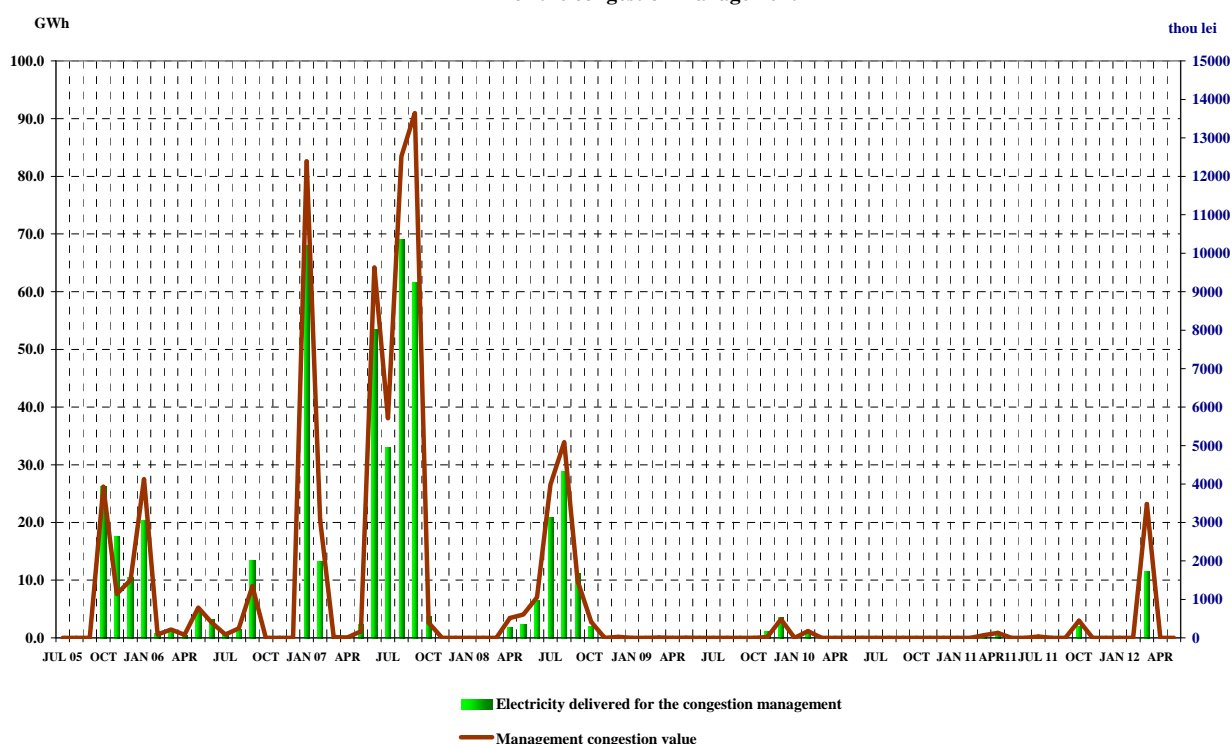
For comparison, the following graph presents the evolution of reserves (ancillary services, i.e. obligations of generators to maintain their contracted capacities available for dispatching/offering on BM) acquired/paid by CN Traselectrica SA starting with July 2011:



Source: Monthly reports of CN Traselectrica SA – processed by MG

The following graph presents the evolution of electricity traded by CN Traselectrica SA on the Balancing Market for covering the electricity used for congestion management (in order to solve the congestions occurred within the transmission grid) and the evolution of the values of these transactions starting with July 2005.

**Monthly evolution of the volume and value of the electricity delivered  
for the congestion management**



Source: Monthly reports of CN Transelectrica SA – processed by MG

### 5. Trading structure on the wholesale electricity market of different participant categories Generators

The structure of electricity sales obligations contracted before delivery day by the electricity generators with dispatchable units in June 2012 compared to previous month and June 2011 was the following:

| Transaction type                                                         | - GWh -        |                |                |
|--------------------------------------------------------------------------|----------------|----------------|----------------|
|                                                                          | May 2012       | June 2012      | June 2011      |
| <b>0</b>                                                                 | <b>1</b>       | <b>2</b>       | <b>3</b>       |
| Regulated to incumbents, thermal generators                              | 716.41         | 684.39         | 655.26         |
| Regulated to incumbents, hydro generator                                 | 473.95         | 405.85         | 384.69         |
| Regulated to incumbents, nuclear generator                               | 296.98         | 360.02         | 407.23         |
| Regulated for distribution losses, thermal generators                    | 194.78         | 177.46         | 167.57         |
| Regulated for distribution losses, hydro generator                       | 86.57          | 63.67          | 29.16          |
| Regulated for distribution losses, nuclear generator                     | 93.74          | 110.87         | 96.84          |
| Regulated for transmission losses, thermal generator                     | 0.00           | 0.00           | 73.82          |
| Regulated, to other generators (with return of obligation within a year) | 9.60           | 0.00           | 275.14         |
| Negotiated, to other generators                                          | 2.64           | 53.95          | 172.58         |
| Negotiated, to suppliers                                                 | 984.61         | 948.03         | 1227.17        |
| Contracts concluded on centralized markets (CMBC, CMBC-NC, RCE)          | 602.07         | 597.42         | 411.13         |
| Supply to consumers (regulated and competitive)                          | 292.43         | 281.04         | 209.79         |
| Export                                                                   | 62.91          | 70.06          | 40.67          |
| DAM                                                                      | 432.69         | 425.64         | 339.57         |
| <b>Total</b>                                                             | <b>4249.36</b> | <b>4178.37</b> | <b>4490.61</b> |

Source: Monthly reports of generators – processed by MG

### Suppliers

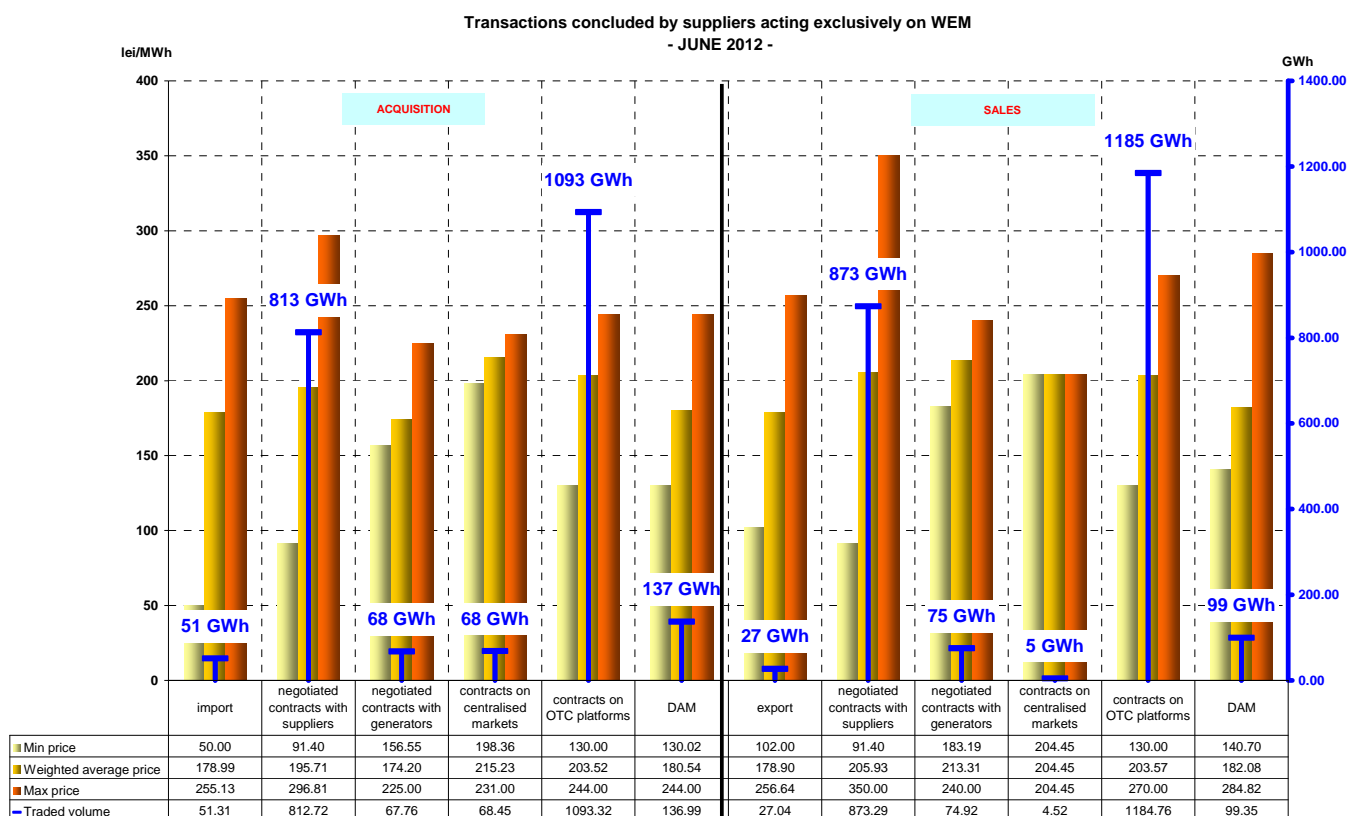
In June 2012, 81 companies having as main activity the supply of electricity concluded transactions on the electricity market; from these, 37 suppliers traded electricity exclusively on the wholesale market and 44 suppliers on both retail and wholesale markets (in this category are also included the 5 incumbent suppliers).

#### Suppliers acting exclusively on WEM

The following table shows the activity for June 2012 compared to June 2011 of the suppliers acting exclusively on WEM, acquisitions and sales being split by categories of markets/participants:

| Transactions' structure of suppliers acting exclusively on WEM | - GWh -   |           |
|----------------------------------------------------------------|-----------|-----------|
|                                                                | June 2011 | June 2012 |
| <b>Acquisitions</b>                                            |           |           |
| Import                                                         | 40.69     | 51.31     |
| Negotiated contracts with suppliers                            | 1863.86   | 812.72    |
| Negotiated contracts with generators                           | 57.59     | 67.76     |
| Contracts concluded on centralized markets                     | 7.52      | 68.45     |
| Contracts on OTC platforms                                     | 0.00      | 1093.32   |
| DAM                                                            | 73.83     | 136.99    |
| <b>Sales</b>                                                   |           |           |
| Export                                                         | 130.13    | 27.04     |
| Negotiated contracts with suppliers                            | 1798.43   | 873.29    |
| Negotiated contracts with generators                           | 28.80     | 74.92     |
| Contracts concluded on centralized markets                     | 0.00      | 4.52      |
| Contracts on OTC platforms                                     | 0.00      | 1184.76   |
| DAM                                                            | 153.19    | 94.22     |

In addition to the data from the table above, the following graph presents the minimum, average and maximum actual prices by categories of transactions completed by the suppliers acting exclusively on WEM (traders) in June 2012:



Source: Monthly reports of the competitive suppliers – processed by MG

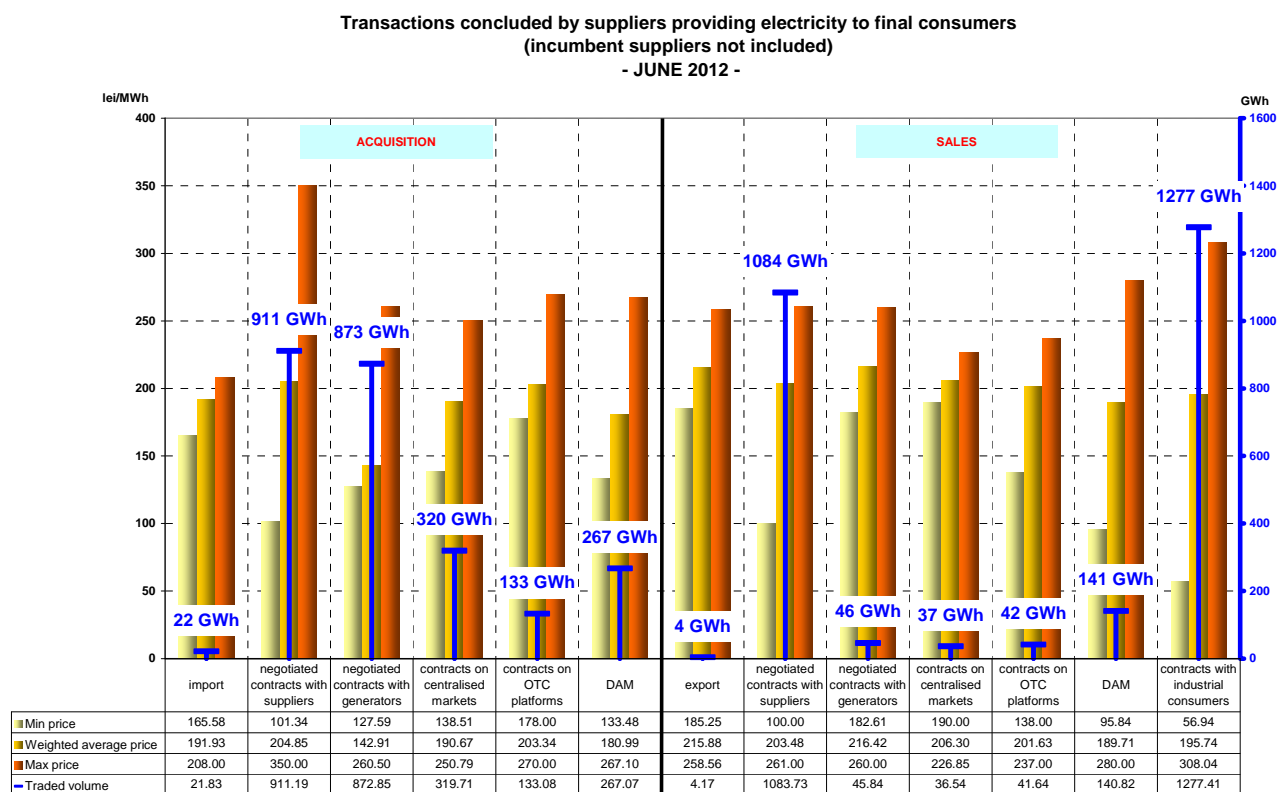
### Active suppliers on REM (the incumbent suppliers are not included)

The following table presents aggregated information on transactions volume and structure for suppliers providing electricity to final consumers, on the competitive market, for June 2012 and June 2011.

- GWh -

| Transactions' structure of suppliers providing electricity to final consumers (the incumbent suppliers are not included) | June 2011 | June 2012 |
|--------------------------------------------------------------------------------------------------------------------------|-----------|-----------|
| <b>Acquisitions</b>                                                                                                      |           |           |
| Import                                                                                                                   | 7.70      | 21.83     |
| Negotiated contracts with suppliers                                                                                      | 989.84    | 911.19    |
| Negotiated contracts with generators                                                                                     | 1169.58   | 872.85    |
| Contracts concluded on centralized markets                                                                               | 346.01    | 319.71    |
| Contracts on OTC platforms                                                                                               | 0.00      | 133.08    |
| DAM                                                                                                                      | 258.28    | 267.07    |
| <b>Sales</b>                                                                                                             |           |           |
| Export                                                                                                                   | 12.67     | 4.17      |
| Negotiated contracts with suppliers                                                                                      | 1373.89   | 1083.73   |
| Negotiated contracts with generators                                                                                     | 37.00     | 45.84     |
| Contracts concluded on centralized markets                                                                               | 0.00      | 36.54     |
| Contracts on OTC platforms                                                                                               | 0.00      | 41.64     |
| DAM                                                                                                                      | 126.75    | 140.82    |
| Contracts with industrial consumers                                                                                      | 1388.01   | 1277.41   |

In addition to the data from the table above, the following graph presents the sales structure and the minimum, average and maximum actual prices by categories of transactions completed by suppliers providing electricity to final consumers in June 2012:



Source: Monthly reports of the competitive suppliers – processed by MG

### Incumbent suppliers

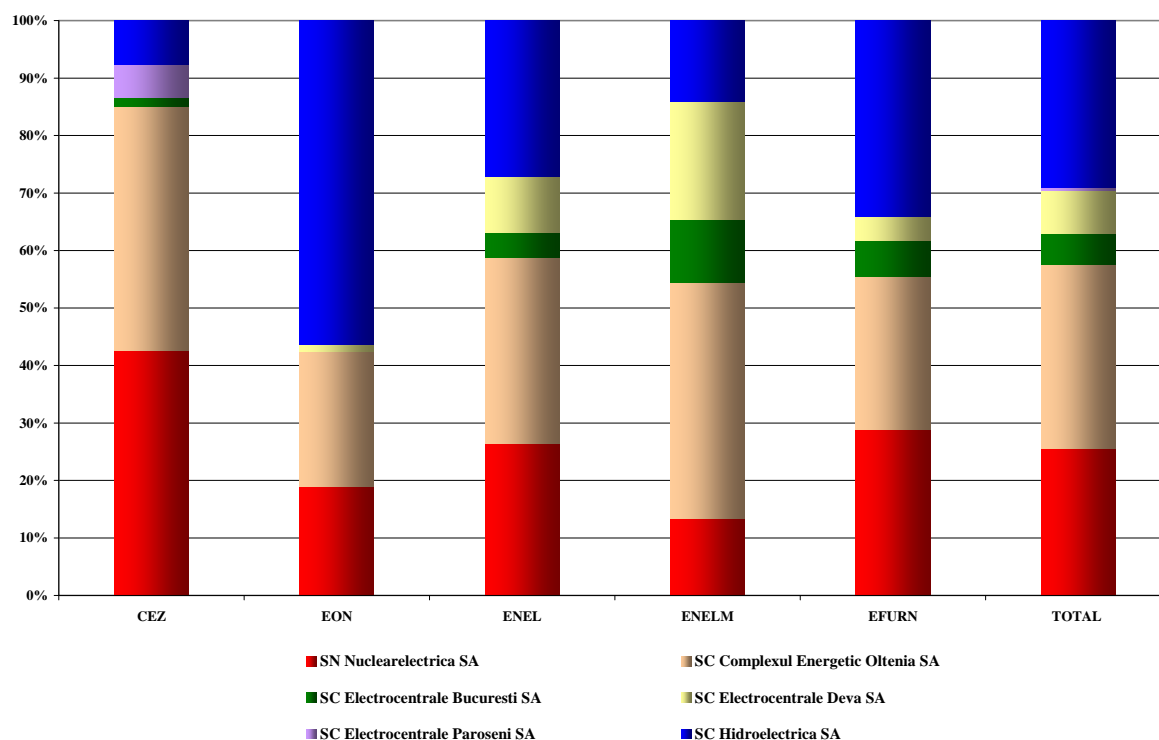
Electricity acquisition structure of incumbent suppliers (before the delivery day), for supplying the regulated market consumers, is presented in the table below, for June 2012 compared to the situation of June 2011:

- GWh -

| Acquisition structure of incumbent suppliers for regulated REM component | June 2011 | June 2012 |
|--------------------------------------------------------------------------|-----------|-----------|
| Regulated contracts with generators                                      | 1493.08   | 1461.53   |
| Negotiated contracts                                                     | 1.60      | 24.47     |
| Contracts concluded on centralized markets                               | 0.00      | 24.35     |
| DAM                                                                      | 0.00      | 26.33     |
|                                                                          | 41.12     | 82.64     |

The structure of the electricity purchased by the incumbent suppliers from the main generators on regulated contracts is presented in the following graph for June 2012:

Electricity acquisition from main generators, on regulated contracts, of incumbent suppliers for delivering electricity to final consumers on regulated market  
JUNE 2012



Source: Monthly reports of the incumbent suppliers – processed by MG

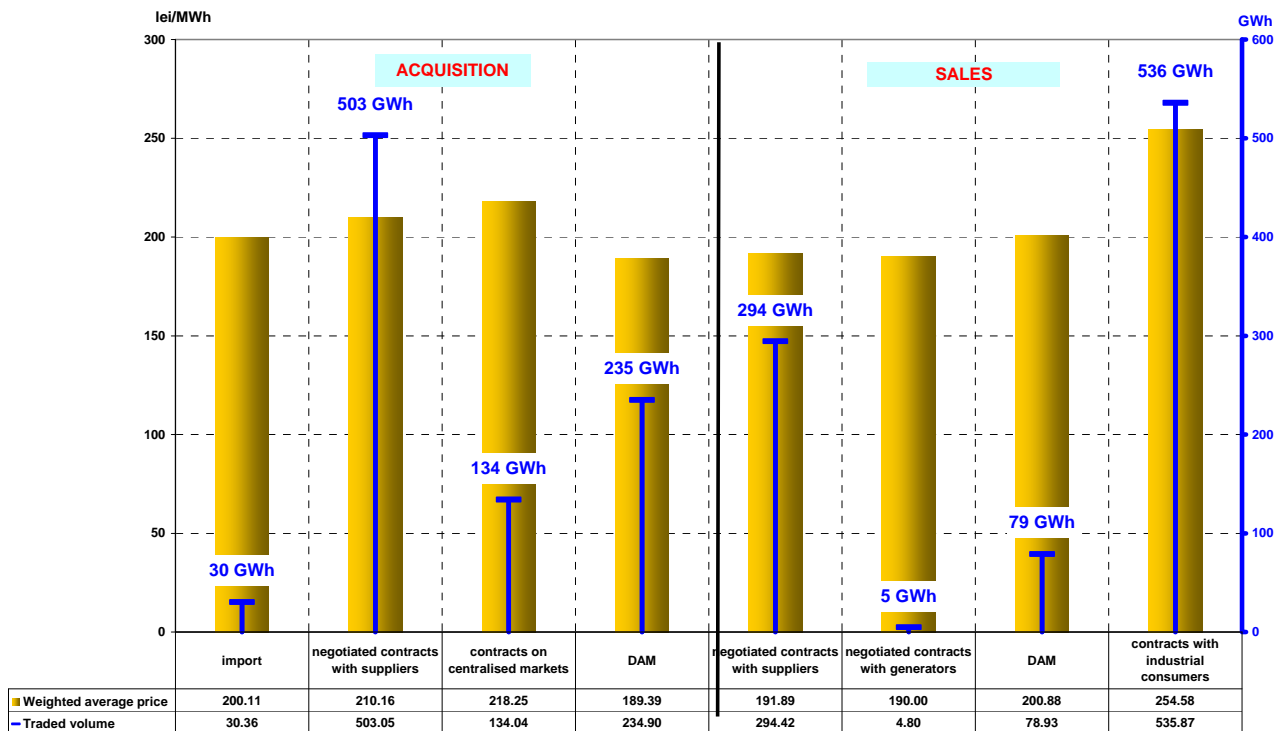
Note: The processed data of CE Oltenia also comprise the data of CE Rovinari, CE Turceni and CE Craiova reported separately for 01-10 June 2012 (period of time when the generation license of CE Oltenia had not been yet issued)

Likewise to the situation presented for the regulated REM. the table below presents the structure of incumbent suppliers' transactions (before the delivery day), corresponding to the competitive REM (energy supplied at negotiated prices to the consumers who renounced to regulated tariffs) for June 2012 compared to June 2011:

| - GWh -                                                                      |           |           |
|------------------------------------------------------------------------------|-----------|-----------|
| Transactions' structure of incumbent suppliers for competitive REM component | June 2011 | June 2012 |
| <b>Acquisitions</b>                                                          |           |           |
| Import                                                                       | 29.86     | 30.36     |
| Negotiated contracts with suppliers                                          | 372.84    | 503.05    |
| Contracts concluded on centralized markets                                   | 0.00      | 134.04    |
| DAM                                                                          | 111.42    | 234.90    |
| <b>Sales</b>                                                                 |           |           |
| Negotiated contracts with suppliers                                          | 55.95     | 294.42    |
| Negotiated contracts with generators                                         | 0.00      | 4.80      |
| Negotiated contracts with distributors                                       | 0.11      | 0.00      |
| DAM                                                                          | 54.87     | 78.93     |
| Final consumers                                                              | 488.55    | 535.87    |

The structure by types of sources/destinations of the traded volumes combined with the actual average prices of the incumbent suppliers corresponding to the competitive segment of REM is presented in the following graph for June 2012:

Transaction concluded by incumbent suppliers providing electricity on the competitive component of REM - JUNE 2012 -



Source: Monthly reports of the incumbent suppliers– processed by MG

**Main distribution operators**

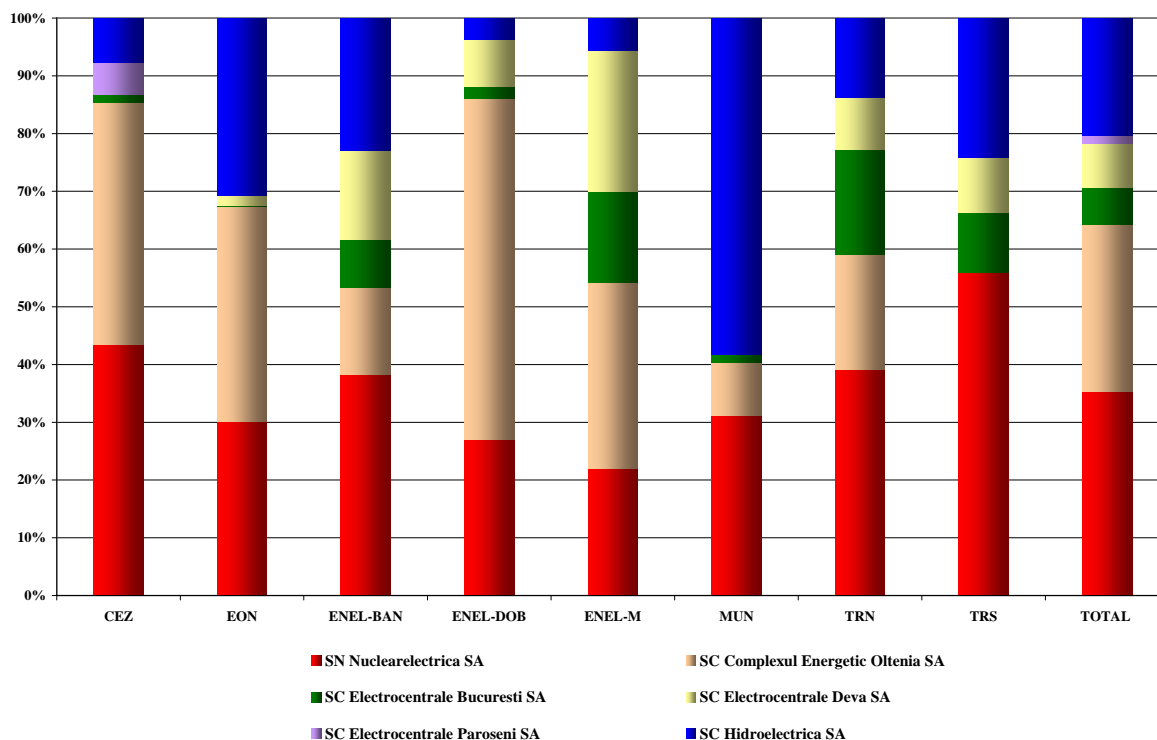
The following table shows the electricity acquisition structure of main distribution operators (before the delivery day), for covering the distribution network losses, for May 2012 compared to June 2011:

- GWh -

| Acquisition structure               | June 2011 | June 2012 |
|-------------------------------------|-----------|-----------|
| Regulated contracts with generators | 296.01    | 354.28    |
| Negotiated contracts with suppliers | 0.12      | 0.00      |
| DAM                                 | 57.17     | 30.33     |

The electricity purchased by the 8 distribution operators from the main generators on regulated contracts, for covering their network losses is presented in detail in the following graph, for June 2012:

Electricity acquisition of distribution operators from main generators, on regulated contracts, for covering the distribution losses  
JUNE 2012



Source: Monthly reports of the distribution operators – processed by MG

Note: The processed data of CE Oltenia also comprise the data of CE Rovinari, CE Turceni and CE Craiova reported separately for 01-10 June 2012 (period of time when the generation license of CE Oltenia had not been yet issued)

## 6. Concentration indicators on the wholesale electricity market and its components

According to the economic theory and the EU documents, the following market concentration indicators may be defined:

- HHI. Herfindahl-Hirschman Index = sum of square market shares (%) of participants:

The indicator values signify:

|                   |                                 |
|-------------------|---------------------------------|
| HHI < 1000        | non-concentrated market;        |
| 1000 < HHI < 1800 | moderately concentrated market; |
| HHI > 1800        | highly concentrated market.     |

- C3 = sum of market shares of the main three participants in the market:

The indicator values signify:

|                |                                 |
|----------------|---------------------------------|
| 40% < C3 < 70% | moderately concentrated market; |
| C3 > 70%       | highly concentrated market.     |

These concentration indicators may be defined for the wholesale market (electricity market or ancillary services market) or for each of its components where direct competition takes place.

### Concentration indicators and market shares of the electricity generators

The market structure regarding the electricity generation offers an initial basis for analyzing the possible competitiveness level of the electricity market.

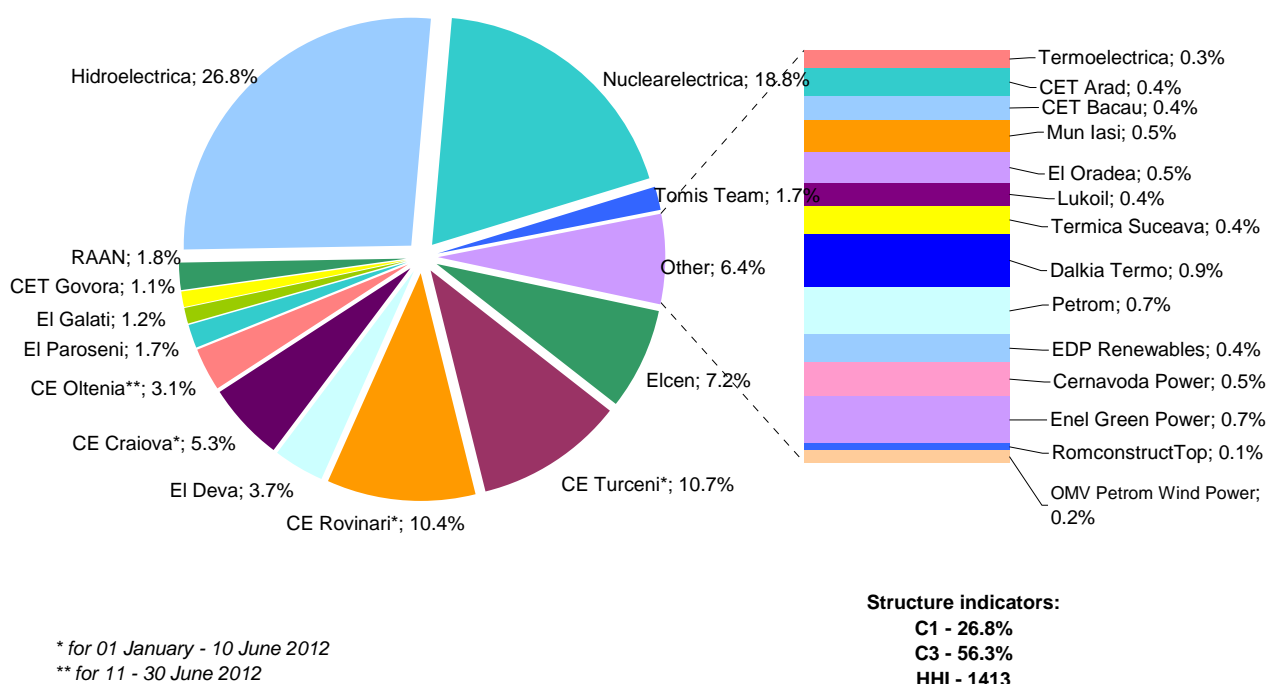
The following table presents the concentration indicators of electricity generation for June 2012, calculated based on electricity delivered into the networks by the generators with dispatchable

units. The concentration indicators had been calculated based on delivered electricity received separately from CE Rovinari, CE Turceni and CE Craiova for 01-10 June 2012 (period of time when the generation license of CE Oltenia had not been yet issued).

| Concentration indicators<br>- June 2011 - | C1 (%) | C3 (%) | HHI  |
|-------------------------------------------|--------|--------|------|
| Value                                     | 36.6   | 73.5   | 2096 |

The market shares of the electricity generators, taking into account all components of the wholesale electricity market, are presented in the following graph, for the first 6 months from 2012. These market shares are calculated based on the electricity delivered into networks.

Market shared of generators with dispatchable units by delivered electricity  
January-June 2012



Source: Monthly reports of generators – processed by MG

A component of the WEM where direct competition between generators exists is the Balancing Market (BM). The values of concentration indicators on this market are determined based on effectively delivered electricity, for each type of regulation defined within the Commercial Code, and they are presented in the following table for June 2012:

| Structure/concentration indicators of BM -<br>JUNE 2012 - | Regulation |          |               |          |               |          |
|-----------------------------------------------------------|------------|----------|---------------|----------|---------------|----------|
|                                                           | Secondary  |          | Fast tertiary |          | Slow tertiary |          |
|                                                           | upward     | downward | upward        | downward | upward        | downward |
| C1 - % -                                                  | 68         | 67       | 70            | 65       | 46            | 37       |
| C3 - % -                                                  | 93         | 93       | 87            | 87       | 85            | 79       |
| HHI                                                       | 4931       | 4889     | 5149          | 4525     | 2958          | 2588     |

\*the structure indicators of BM had been calculated based on separated data for CE Rovinari, CE Turceni and CE Craiova

The competition between generators is also present when speaking about the ensuring the reserves necessary for security of supply in the NES. Due to the fact that generators have different levels of capabilities for ensuring this type of service, this market has an important regulated component. The relationship between regulated and competitive components on the Ancillary Services Market (ASM) as well as the main concentration indicators on each type of reserve (secondary, fast tertiary and slow tertiary) are presented in the following table for June 2012:

| <b>Concentration indicators on ASM<br/>- June 2012 -</b> |                                       | <b>Secondary<br/>reserve</b> | <b>Fast<br/>tertiary<br/>reserve</b> | <b>Slow<br/>tertiary<br/>reserve</b> |
|----------------------------------------------------------|---------------------------------------|------------------------------|--------------------------------------|--------------------------------------|
| <b>regulated<br/>component</b>                           | <b>contracted quantity<br/>(h*MW)</b> | <b>257400</b>                | <b>518400</b>                        | <b>231600</b>                        |
|                                                          | <b>C1 (%)</b>                         | <b>57.2</b>                  | <b>82.4</b>                          | <b>50.0</b>                          |
|                                                          | <b>C3 (%)</b>                         | <b>100</b>                   | <b>93.6</b>                          | <b>85.8</b>                          |
| <b>competitive<br/>component</b>                         | <b>contracted quantity<br/>(h*MW)</b> | <b>28500</b>                 | <b>114300</b>                        | <b>220290</b>                        |
|                                                          | <b>C1 (%)</b>                         | <b>100</b>                   | <b>98.2</b>                          | <b>82.4</b>                          |
|                                                          | <b>C3 (%)</b>                         | <b>100</b>                   | <b>100</b>                           | <b>98.2</b>                          |
|                                                          | <b>HHI</b>                            | <b>10000</b>                 | <b>10000</b>                         | <b>6925</b>                          |

\* the structure indicators had been calculated based on cumulated data from CE Rovinari, CE Turceni and CE Craiova (01-10 June 2012) and from CE Oltenia (11-30 June 2012)

### Concentration Indexes for the Day Ahead Market

Day Ahead Market (DAM) is a voluntary market, opened both for buying and selling for all types of market participants: generators, suppliers, grid operators, under applicable regulations.

The concentration indicators on DAM reflects the level of competition between sellers and between buyers respectively, the dynamics of both influencing the price level. The following table presents C1, C3 and HHI for buying and for selling side of DAM in June 2012, based on quantities traded by participants on this market.

| <b>Concentration indicators on DAM<br/>- June 2012 -</b> | <b>C1 (%)</b> | <b>C3 (%)</b> | <b>HHI</b>  |
|----------------------------------------------------------|---------------|---------------|-------------|
| <b>Buying transactions</b>                               | <b>25.78</b>  | <b>52.14</b>  | <b>1220</b> |
| <b>Selling transactions</b>                              | <b>17.46</b>  | <b>43.59</b>  | <b>889</b>  |

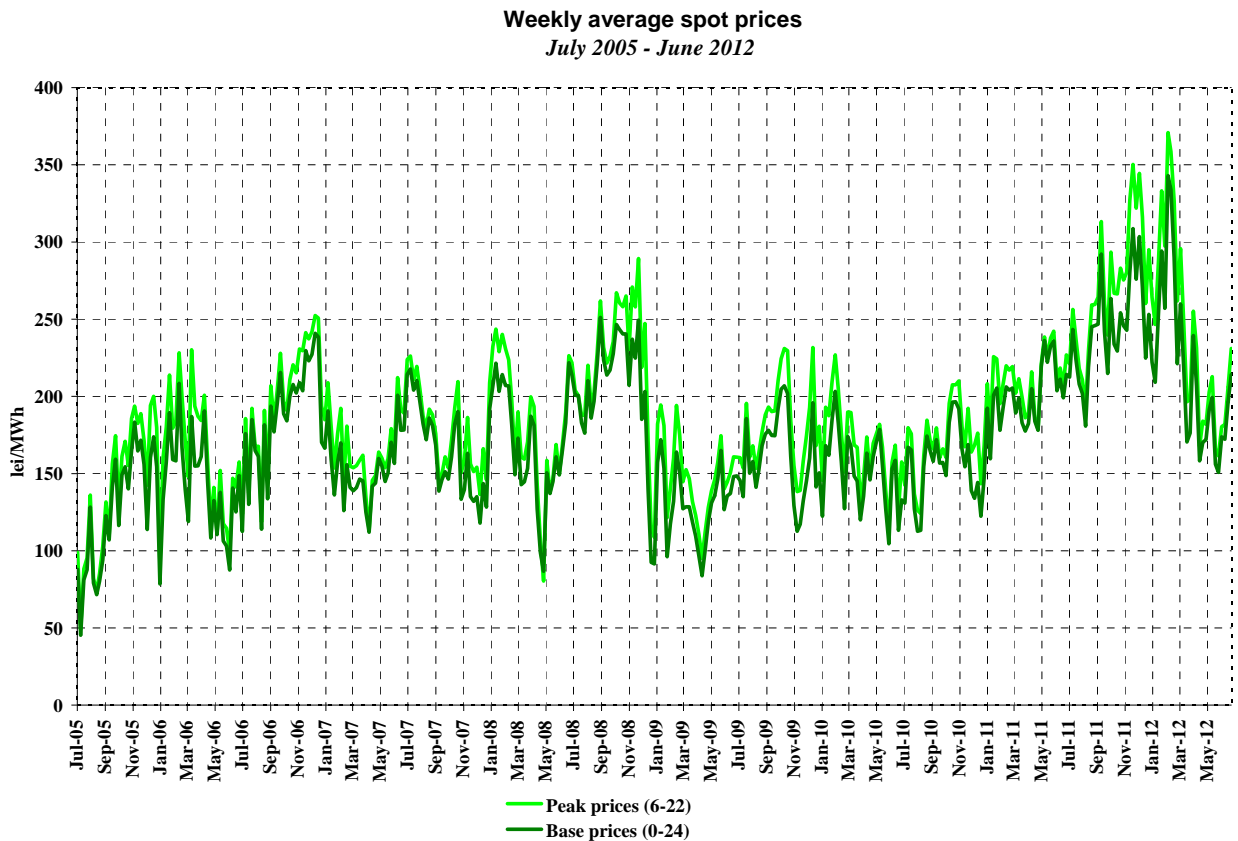
## **7. Price evolution on wholesale electricity market**

SC Opcom SA is the administrator of DAM. The MCP on DAM represents a reference value for the prices on the bilateral contracts. The evolutions of hourly and daily average prices on DAM in June 2012 are presented in the following graphs, along with the prices on EXXA.

For comparison with prices on the European power exchanges, the spot price on SC Opcom SA is denominated in EUR, taking into consideration the daily exchange rates Euro/leu communicated by the National Bank of Romania.



The following graph presents the evolution of weekly average spot prices starting with July 2005:

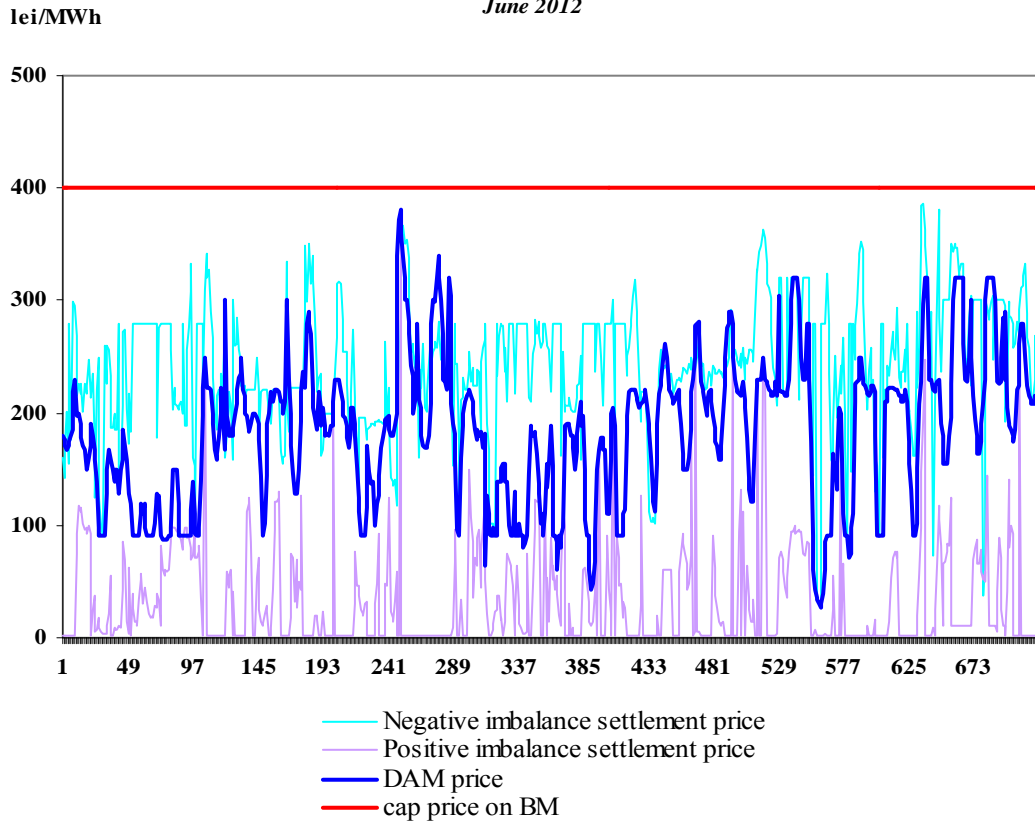


*Source: Daily reports of SC Opcom SA – processed by MG*

In order to cover the differences between planned/contracted amounts of consumption/generation and the real time consumption, the system operator (CN Transelectrica SA) operates the BM by buying or "selling" electricity at prices determined by the merit order of dispatchable generators' offers. The participants who generate the imbalances, grouped in BRPs, have to bear the imbalances costs. For the negative imbalances, they have to pay the settlement price resulting from the upward bids accepted on the BM, while for the positive imbalances they receive the settlement price resulting from the downward bids accepted on the BM.

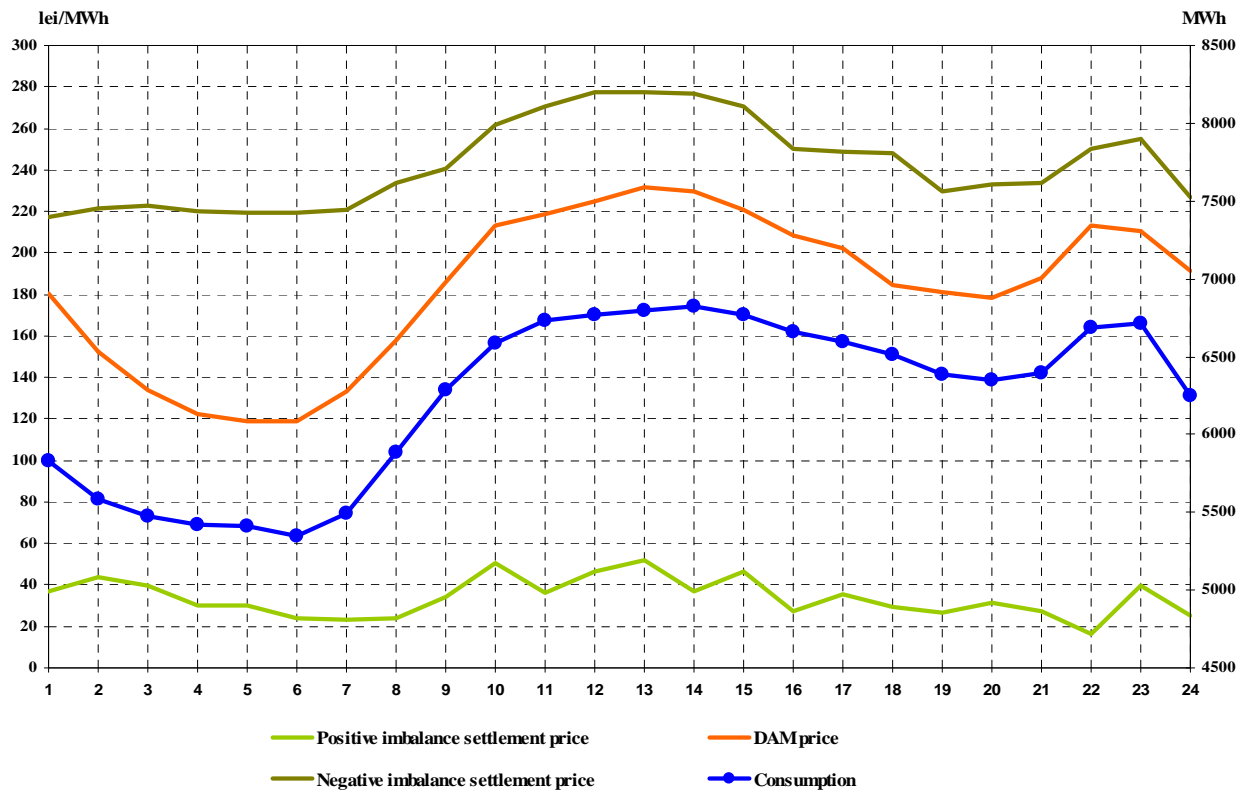
The settlement prices (MCP on DAM, negative imbalance settlement price and positive imbalance settlement price) are represented on the same graph, showing the two markets correlation degree. In the first graph the prices are expressed in hourly values, in the second graph in hourly average values compared to internal consumption, and in the last graph in average monthly values.

### Hourly settlement prices June 2012



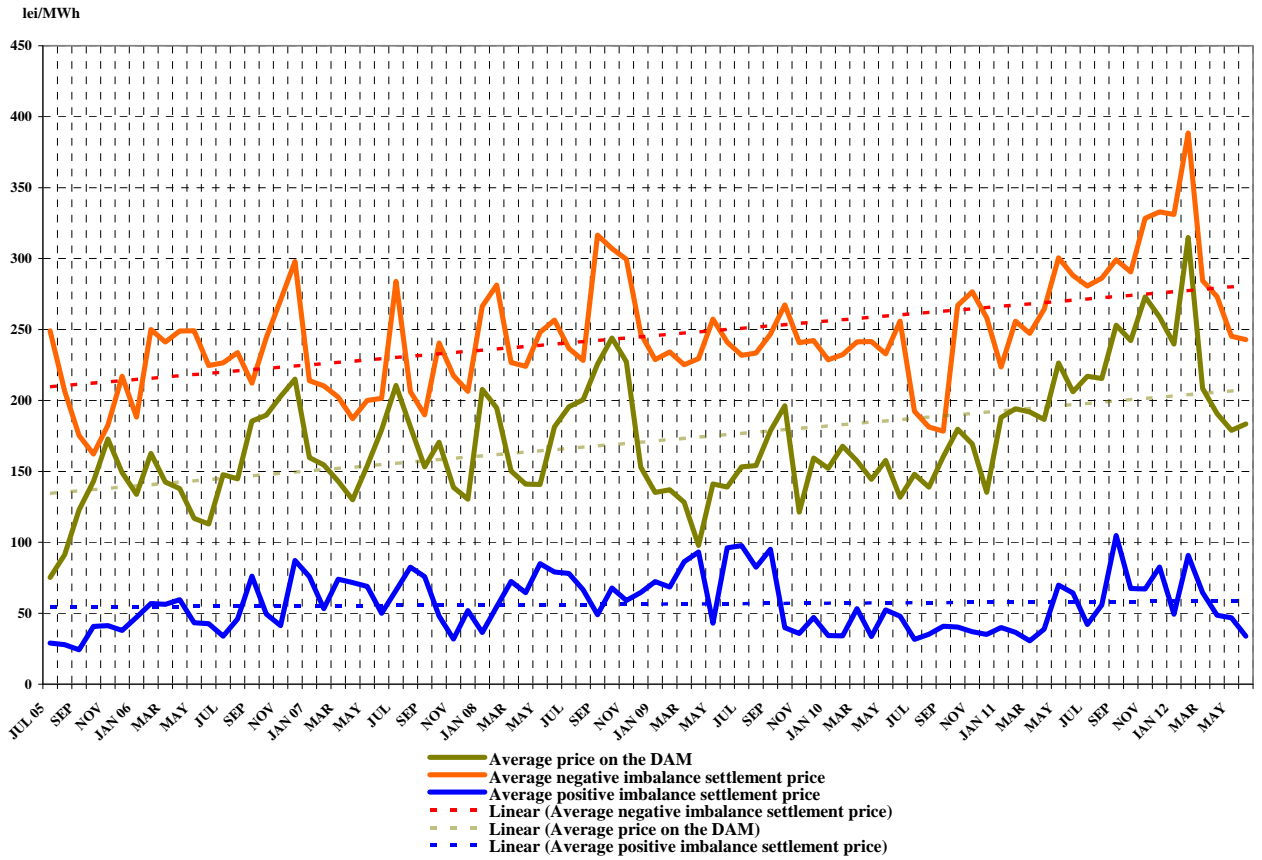
Source: Daily/monthly reports of SC Opcom SA – processed by MG

### Hourly average settlement prices and internal consumption June 2012



Source: Monthly reports of SC Opcom SA and CN Transelectrica SA – processed by MG

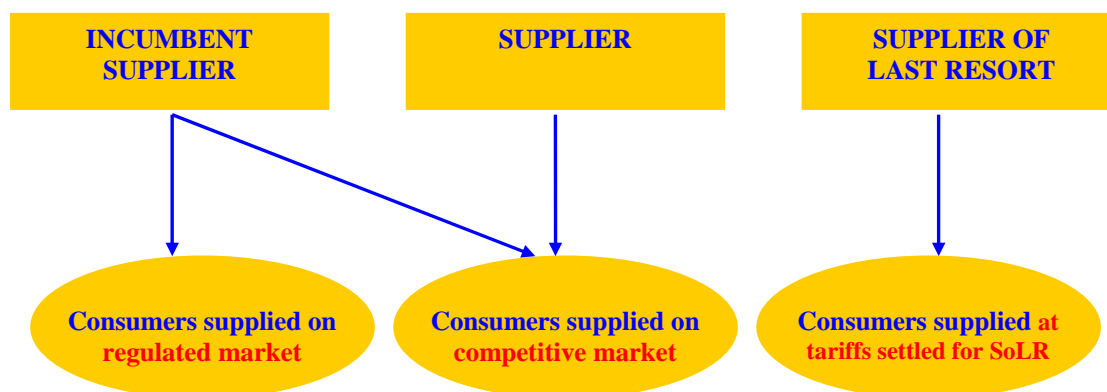
Monthly average prices on DAM and BM  
July 2005 - June 2012



Source: Monthly/daily reports of SC Opcom SA – processed by MG

### III. RETAIL ELECTRICITY MARKET

#### 1. Structure of the retail electricity market



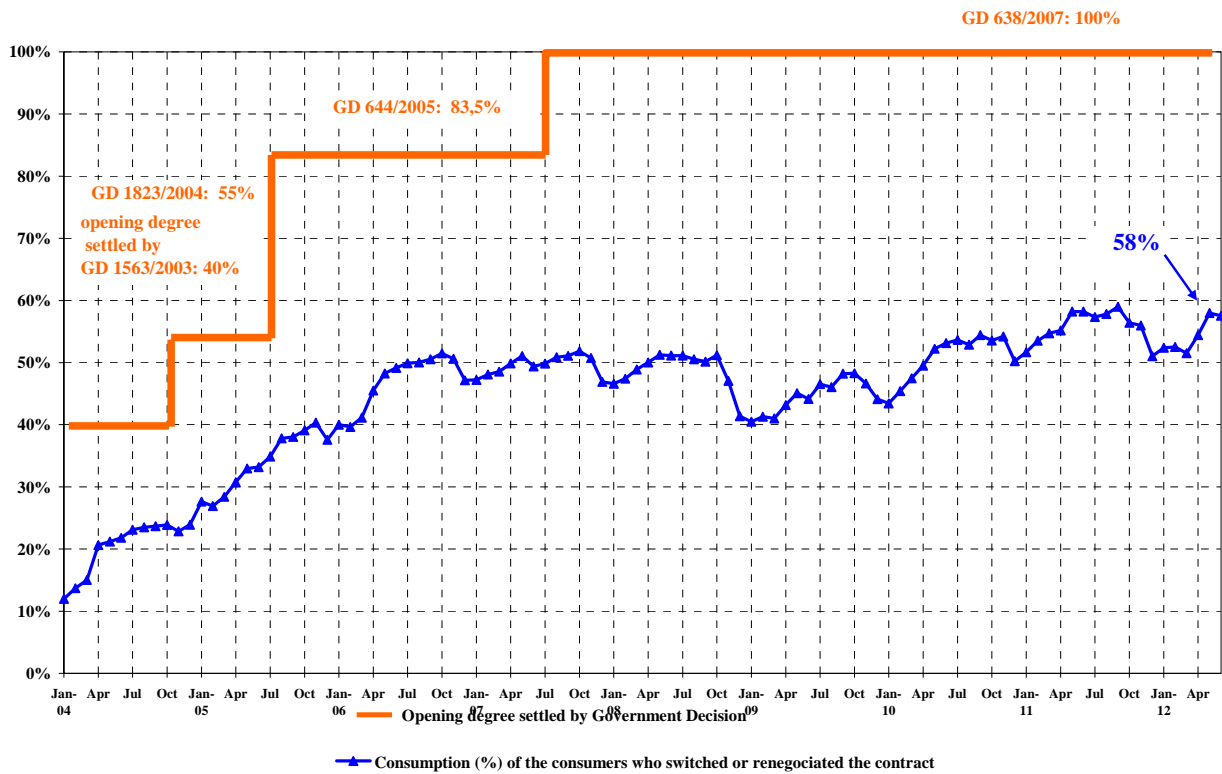
#### 2. Steps in the opening process of the electricity market

| Government Decision                              | Opening degree % | Annual consumption threshold GWh/year |
|--------------------------------------------------|------------------|---------------------------------------|
| No. 122/2000, published in O.G. 77/21.02.2000    | 10               | 100                                   |
| No. 982/2000, published in O.G. 529/27.10.2000   | 15               | 100                                   |
| No. 1272/2001, published in O.G. 832/21.12.2001  | 25               | 40                                    |
| No. 48/2002, published in O.G. 71/31.01.2002     | 33               | 40                                    |
| No. 1563/2003, published in O.G. 22/12.01.2004   | 40               | 20                                    |
| No. 1823/2004, published in O.G. 1062/16.11.2004 | 55               | 1                                     |
| No. 644/2005, published in O.G. 684/29.07.2005   | 83.5             | -                                     |
| No. 638/2007, published in O.G. 427/27.06.2007   | 100              | -                                     |

#### 3. Electricity market opening degree

The following graph contains the quota of the consumption from total consumption, of the consumers who switched their supplier or renegotiated their contracts with the suppliers operating on the regulated market, during January 2004 – June 2012. The values presented are cumulated from the beginning of the opening process and are presented monthly:

Opening degree evolution for electricity market  
January 2004 - June 2012



Source: Monthly reports of the final consumers' suppliers – processed by MG

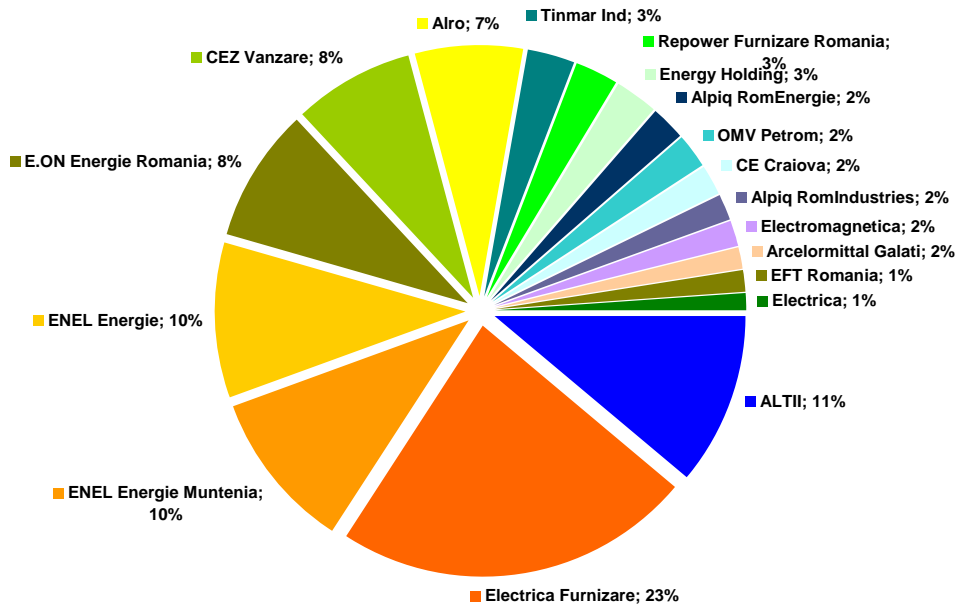
#### 4. Market shares of the electricity suppliers

In the following three graphs there are presented the market shares of electricity suppliers on the retail market, calculated:

- a) for all suppliers (including the incumbents) on REM – based on the electricity supplied to the consumers on regulated tariffs as well as to the consumers who switched their supplier or renegotiated their contract;

**Market shares of suppliers for final consumers**

- JANUARY - JUNE 2012 -



Final consumption: 22902 GWh

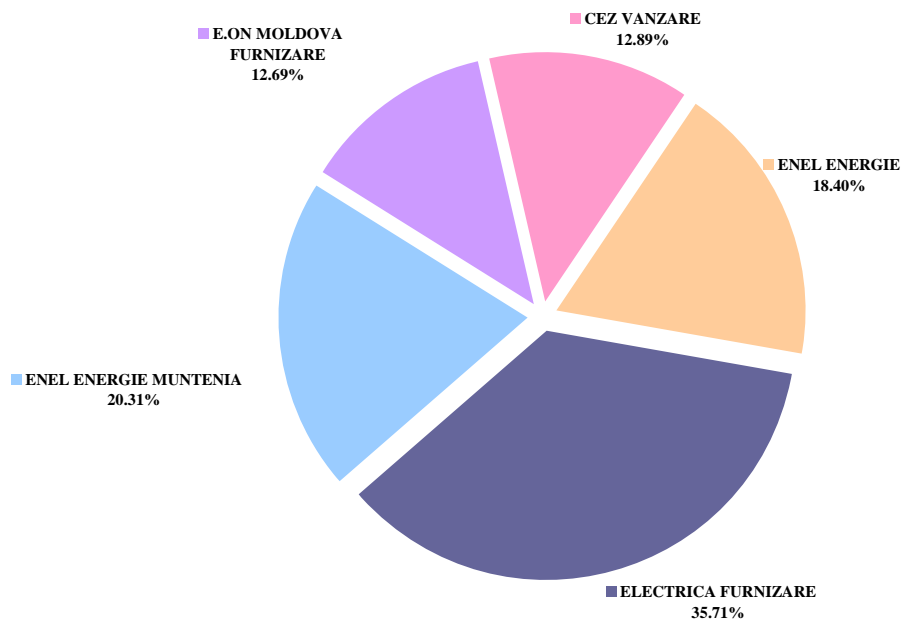
Category "Altii" includes 41 suppliers with individual market share less than 1%

Source: Monthly reports of the incumbent suppliers – processed by MG

b) for incumbent suppliers - based on the electricity supplied to the consumers at regulated tariffs:

**Market shares of incumbent suppliers on regulated market**

- JANUARY - JUNE 2012 -

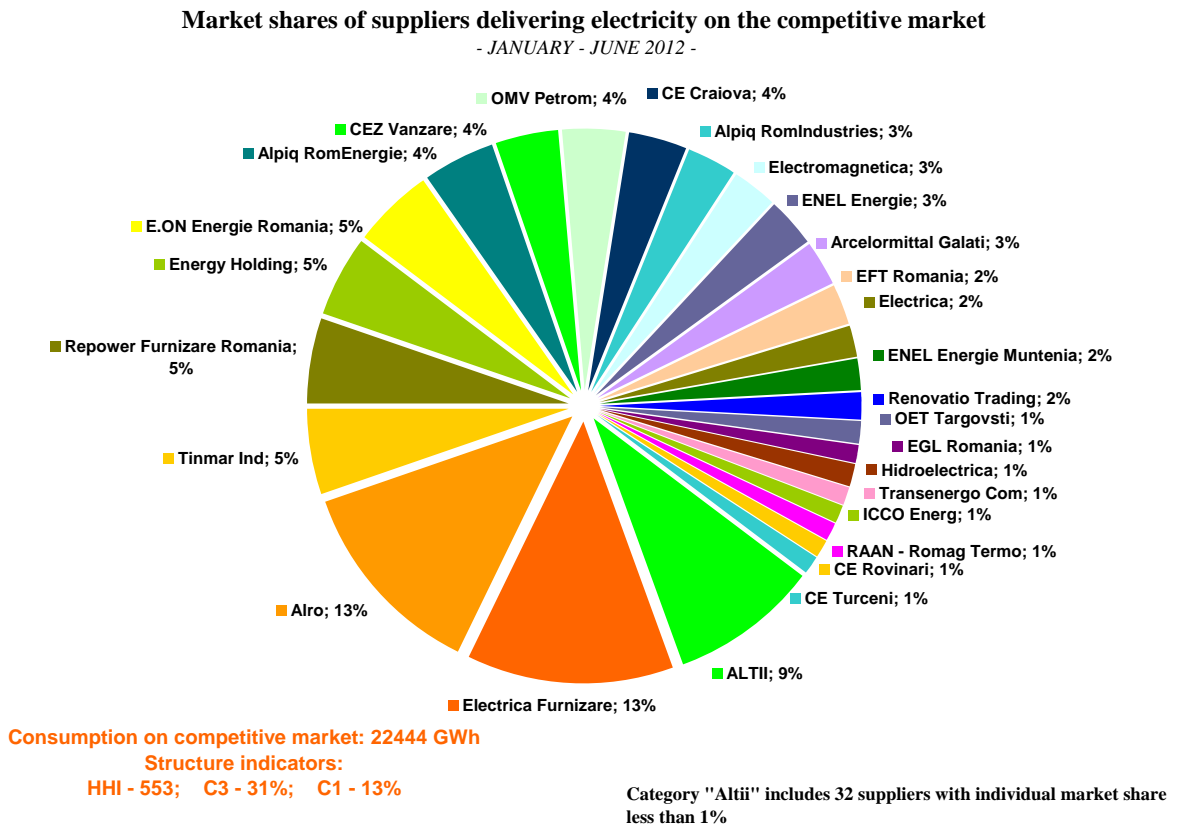


Consumption of consumers supplied at regulated tariffs: 10458 GWh

Source: Monthly reports of the incumbent suppliers – processed by MG

and

- c) for all suppliers (including the incumbents) based on the electricity supplied for the consumers at negotiated prices on competitive component of REM:



Source: Monthly reports of the competitive suppliers – processed by MG

The structure indicators were calculated without considering the principle of dominance. The delivered electricity (used for calculating the market shares) comprises the self-consumption of large industrial consumers who possess supply licenses and acquire electricity from the wholesale market as competitive suppliers.

The values of market indicators were calculated without taking into consideration the dominance principle. The delivered electricity used for determining the market share of each supplier comprises the self-consumption of the largest industrial consumer which owns a supply license and based on it acquired its electricity from the WEM as a competitive supplier.

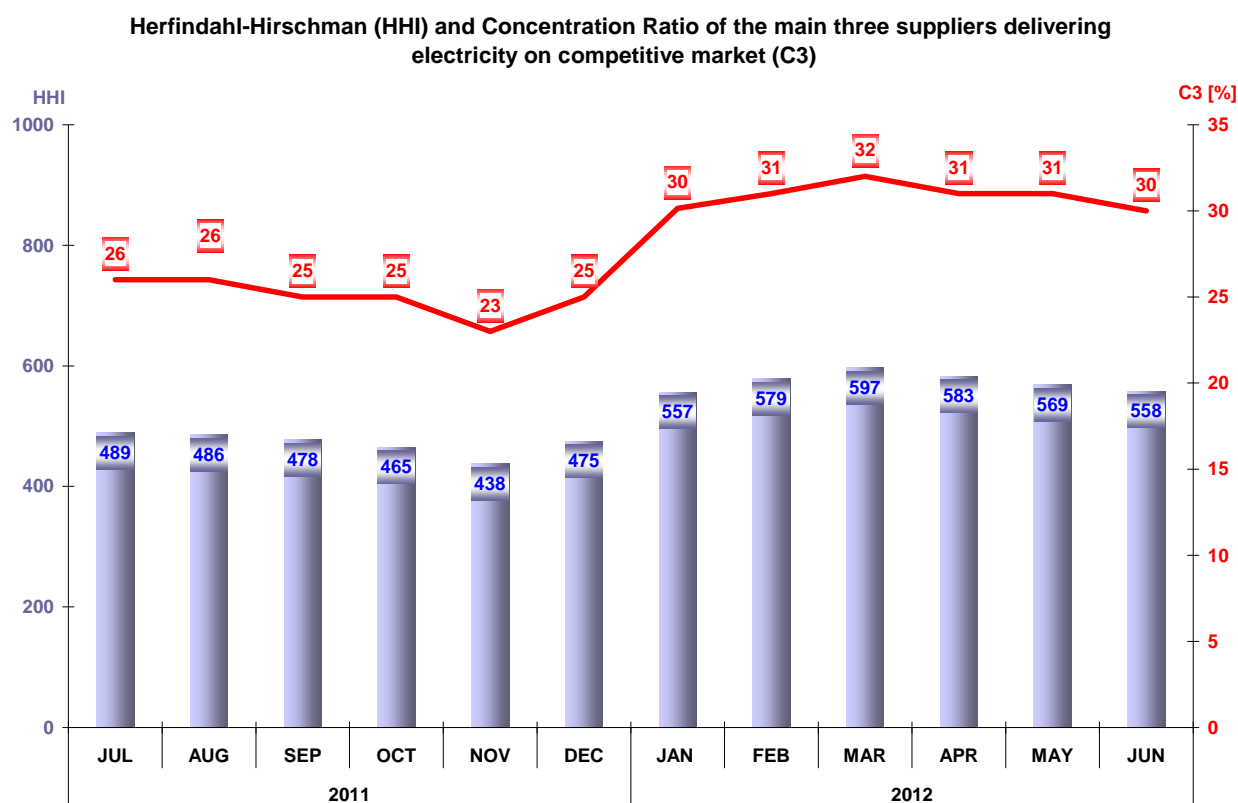
The electricity supplied to the final consumers used for calculating the market share of every supplier includes also the self-consumption of that particular supplier (e.g. consumers with supply license who buy electricity for themselves from WEM as competitive suppliers).

The analysis of the competitive suppliers' activity on the competitive REM component compared to their activity on the WEM is developed based on the weight of the electricity sold to final consumers in total electricity sales. The table below presents the number of suppliers acting on the REM, grouped into categories of sales weight during June 2012:

| Number of suppliers | Share of sales to final consumers from total sales transactions |            |           |           |
|---------------------|-----------------------------------------------------------------|------------|-----------|-----------|
|                     | 100%                                                            | 75% - 100% | 50% - 75% | <50%      |
| <b>Competitive</b>  | <b>4</b>                                                        | <b>9</b>   | <b>4</b>  | <b>22</b> |
| <b>Incumbent</b>    | <b>0</b>                                                        | <b>3</b>   | <b>1</b>  | <b>1</b>  |

### 5. Concentration indicators of the competitive retail electricity market

The monthly evolution of concentration indicators (C3, HHI) determined on the competitive component of the REM is presented for July 2011 – June 2012 in the following graph:



Source: Monthly reports of the suppliers – processed by MG

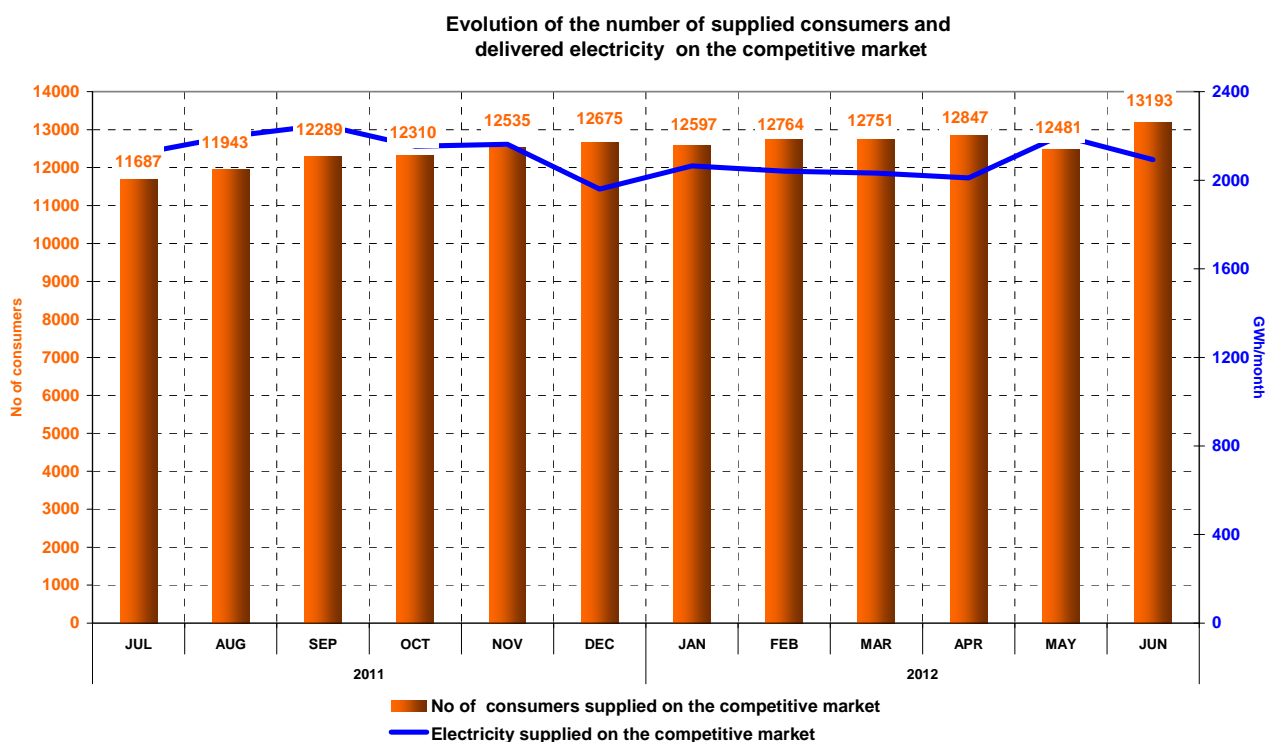
The table below shows the values of structure indicators of competitive component of REM for and the number of active suppliers in June 2012, calculated for each consumer category as defined by the European Council Directive no. 90/377/EEC, modified by the Commission Decision no. 2007/394/EC:

| Indicators - June 2012       | Consumer category |      |      |     |     |      |       | Total REM |
|------------------------------|-------------------|------|------|-----|-----|------|-------|-----------|
|                              | IA                | IB   | IC   | ID  | IE  | IF   | Other |           |
| C1 - % -                     | 54                | 25   | 24   | 14  | 12  | 25   | 30    | 13        |
| C3 - % -                     | 81                | 55   | 43   | 34  | 35  | 54   | 48    | 30        |
| HHI                          | 3410              | 1302 | 1031 | 683 | 756 | 1365 | 1338  | 558       |
| Consumption - GWh -          | 5                 | 102  | 175  | 493 | 230 | 219  | 868   | 2093      |
| No. of SUPPLIERS             | 25                | 43   | 45   | 43  | 22  | 11   | 18    | 55        |
| No. of incumbent suppliers   | 5                 | 5    | 5    | 5   | 4   | 3    | 2     | 5         |
| No. of competitive suppliers | 13                | 30   | 32   | 32  | 15  | 8    | 7     | 39        |
| No. of producers             | 7                 | 8    | 8    | 6   | 3   | 0    | 9     | 11        |

## 6. Evolution of consumers' number and of electricity delivered

Number of consumers supplied on the competitive market is presented as total value from the beginning of the market opening process; for June 2012 this number is split into categories, according to the provisions of the European Council Directive no. 90/377/EC, with subsequent modifications. The table below presents the bands of consumption of each category of consumers:

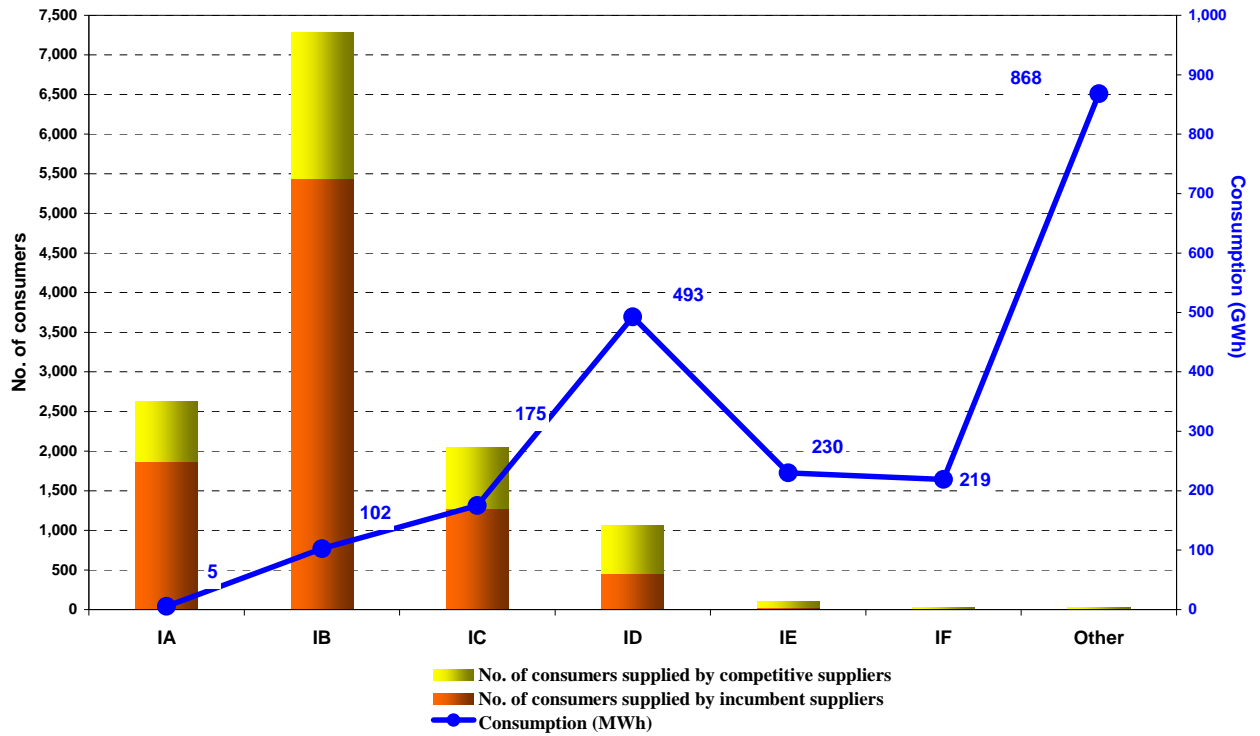
| Industrial end-user | Annual electricity consumption (MWh) |          |
|---------------------|--------------------------------------|----------|
|                     | Lowest                               | Highest  |
| IA                  |                                      | <20      |
| IB                  | 20                                   | <500     |
| IC                  | 500                                  | <2000    |
| ID                  | 2000                                 | <20000   |
| IE                  | 20000                                | <70000   |
| IF                  | 70000                                | <=150000 |
| Others              | >150000                              |          |



Source: Monthly reports of the competitive suppliers – processed by MG

NOTES: 1. There has been identified one supplier which had sent wrong figures corresponding to January-April 2011. Following the MG warnings, they reported the accurate figures, which are visible in the hereabove graph.

Number of consumers supplied on competitive market and the consumption of each category of consumers  
- JUNE 2012 -

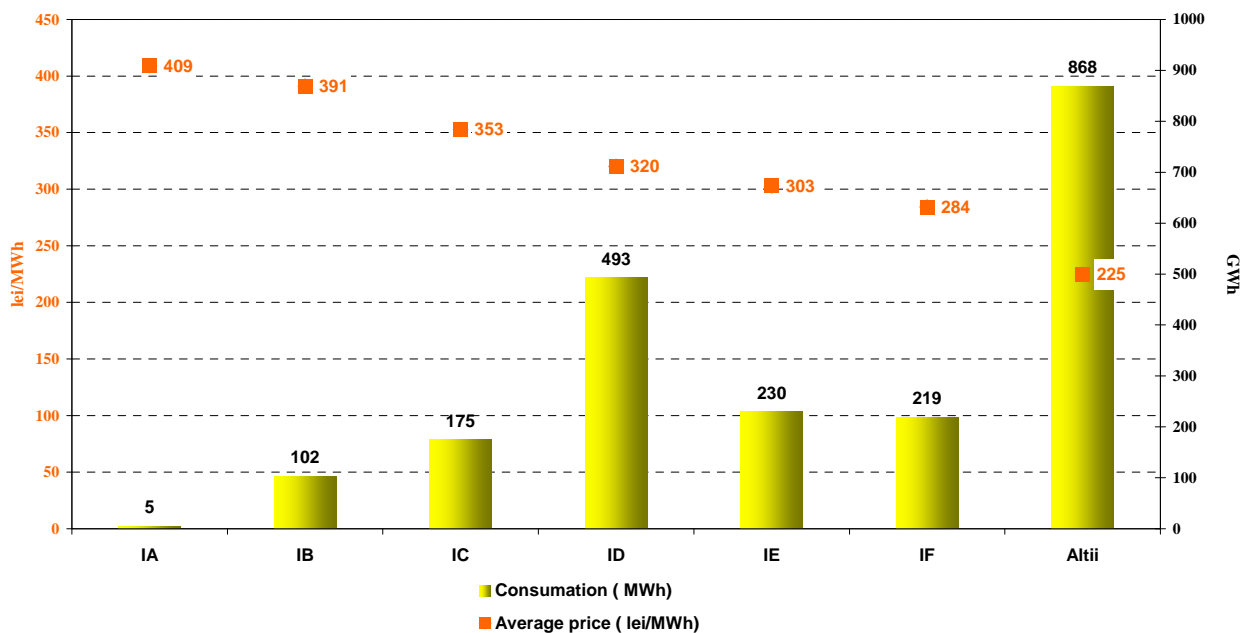


Source: Monthly reports of the suppliers – processed by MG

### 7. Average selling prices of consumers supplied on the competitive market

The following graph presents the average selling prices of consumers supplied on the competitive market, based on the structure defined according to the European Council Directive no. 90/377/EC, with the subsequent modifications.

Average price and energy consumption on types of consumers applied on competitive market  
- JUNE 2012 -



Source: Monthly reports of the competitive suppliers – processed by MG

Note: The average selling price on each category was calculated as weighted average of prices applied by suppliers with quantities supplied according to the provisions of the European Directive. The average prices do not include VAT, excise or other taxes but include the supplied services (injection and extraction components of transmission, system services, distribution, market settlement, imbalance, BRP aggregated tax, metering). Splitting consumers into categories was based on their annual consumption forecast, according to the provisions of above mentioned Directive.

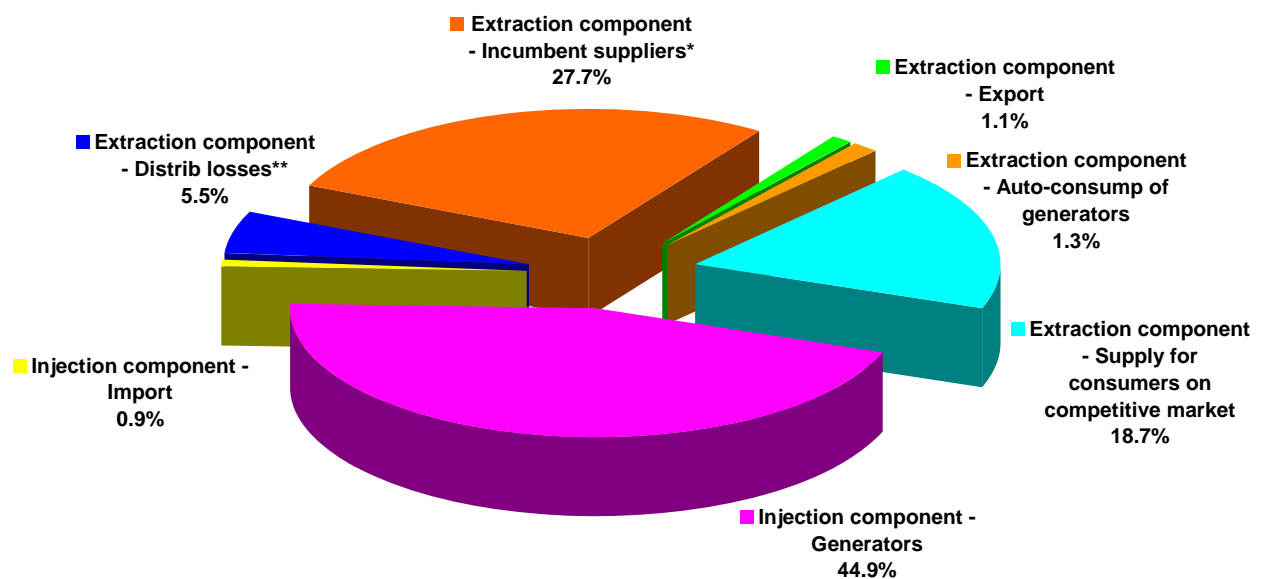
#### IV. TRANSMISSION AND SYSTEM OPERATOR C.N. TRANSELECTRICA S.A.

CN Transelectrica SA performs the electricity transmission service at regulated tariffs, which have two components:

- injection component (TG), aimed to determine an optimum geographic positioning of the new power units;
- extraction component (TL), as an incentive for an equilibrate positioning into the territory of the consumers.

The following graph presents the structure of CN Transelectrica SA revenues from performing the transmission services and reflects the structure of its clients benefiting from this type of service in June 2012.

CN Transelectrica SA structure of revenues from transmission services  
- June 2012 -



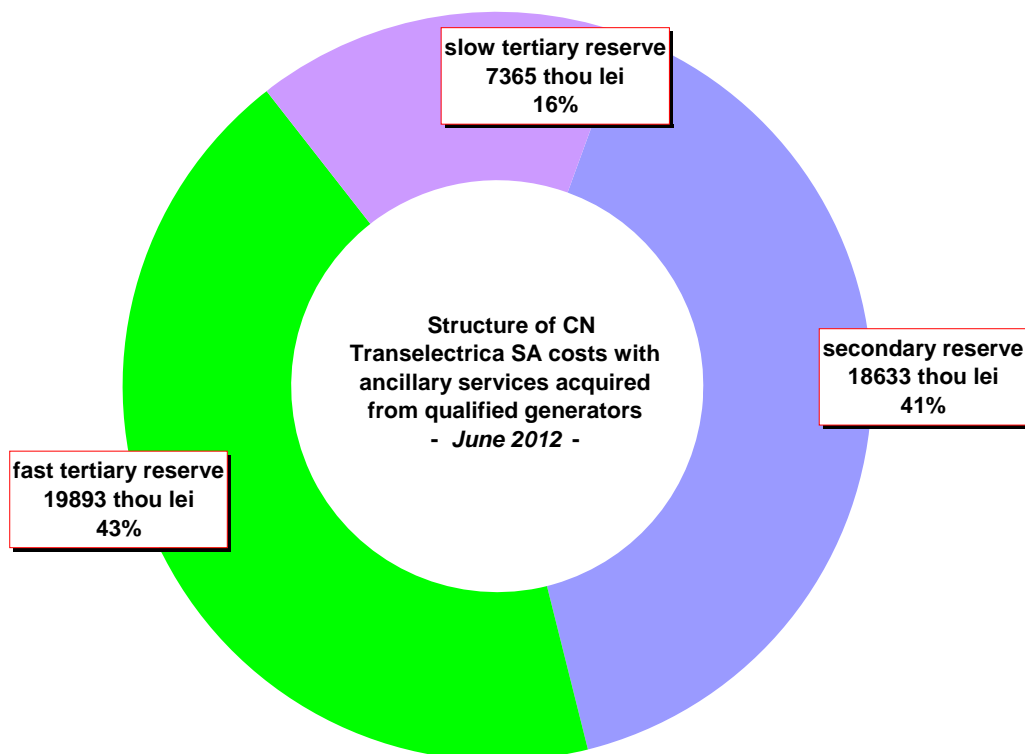
\* for electricity extracted from their own licence areas as well as from other areas

\*\*for electricity extracted by the 8 main distribution operators for covering distribution losses

Source: Monthly reports of CN Transelectrica SA – processed by MG

In order to perform the system operator tasks, CN Transelectrica SA assesses and contracts reserves (ancillary services) from qualified generators, which are integrated on BM. The ancillary services which may be used are reserves for secondary, fast tertiary, slow tertiary regulation and reactive energy. With the implementation of the support scheme for high efficiency cogeneration from June 2011, the slow tertiary reserve from cogeneration has been eliminated.

The following graph presents the costs of ancillary services CN Transelectrica SA had to pay in June 2012. In order to cover these costs and its own operating costs, TSO applies a regulated tariff for system services.



Source: Monthly reports of CN Transelectrica SA – processed by MG

#### IV. EVOLUTION OF MARKET RULES IN JUNE 2012

In June 2012, ANRE issued the following regulations with impact on the wholesale and retail electricity markets:

- ✓ Order no. 24/2012 for approving the distribution tariffs of the main distribution operators;
- ✓ Order no. 25/2012 for approving the regulated tariffs for the electricity delivered by incumbent suppliers and suppliers of last resort for household customers;
- ✓ Order no. 26/2012 for approving the regulated tariffs for the electricity delivered by the incumbent suppliers and suppliers of last resort for captive customers, other than household and prices of the reactive electricity;
- ✓ Order no. 27/2012 regarding the modifying of art.1 Order no. 12/2011 for approval the contribution for high efficiency co-generation;
- ✓ Decision no. 1438/2012 for approving the Review Programme of the technical guidelines for generation, transmission, dispatching, distribution, supplying and using the electricity and heat on 2012;
- ✓ Decision no. 1505/2012 for approving the list of electricity and heat co-generation capacities with final accreditation;
- ✓ Decision no. 1506/2012 for approving the quantities produced in high efficiency

cogeneration which benefits from bonus scheme in May 2012;

- ✓ Decision no. 1507/2012 for approving the regulated electricity prices and quantities for CE Oltenia;
- ✓ Decision no. 1598/2012 regarding the acquisition of ancillary services from CE Craiova for July-December 2012.

## V. EXPLANATIONS AND ABBREVIATION

### 1. Explanations

- *Self-consumption of generators* – in the graph regarding the revenues of CN Transelectrica SA the self-consumption exclusively represents the generators consumption at consumption places other than the generation sites.
- *Internal consumption* represents the electricity covered by the wholesale market participants and calculated as *Delivered electricity + Import – Export*.
- *Consumption of consumers on regulated market* represents the consumption of consumers supplied at regulated tariffs by the incumbent suppliers.
- *Consumption of consumers on competitive market* represents the consumption of consumers supplied at negotiated prices.
- *Fuel consumption* represents the fuel consumed for generating electricity and heat.
- *Electricity delivered into the grid* includes also the own consumption of auto-generators such as RAAN and OMV Petrom together with the electricity sold by the generators through direct lines or consumed by themselves at other consumption sites.
- *Competitive supplier* represents, within the present document, the supplier which is active on the competitive retail market.

### 2. Abbreviation

- MG – Monitoring Group
- EEX – European Energy Exchange – Leipzig, Germany. [www.eex.de](http://www.eex.de)
- EXAA – Energy Exchange Austria. [www.exaa.at](http://www.exaa.at)
- DAM – Day Ahead Market
- BM – Balancing Market
- ASM – Ancillary Services Market
- MCP – Market Clearing Price
- BRP – Balancing Responsible Party
- TG/TL – injection / extraction component of the transmission tariff
- CMBC – centralised market of bilateral contracts
- CMBC-CN – centralised market for partially standardised bilateral contracts with continuous negotiation
- NES – National Energy System
- WEM – wholesale electricity market
- REM – retail electricity market
- RCE – Romanian Commodities Exchange