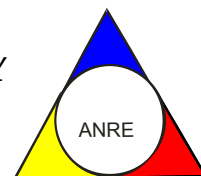




ROMANIAN ENERGY REGULATORY AUTHORITY
ELECTRICITY MARKET DEPARTMENT



REPORT ON RESULTS OF MONITORING THE
ROMANIAN ELECTRICITY MARKET
JUNE 2009

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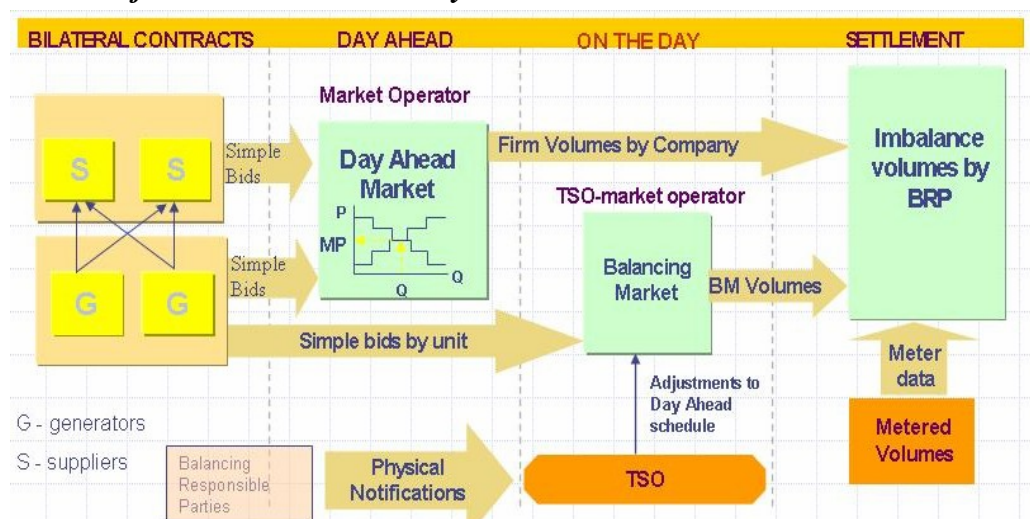
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I. MAIN EVENTS IN THE DEVELOPMENT OF THE ROMANIAN ELECTRICITY MARKET

- **GD 365/1998** – vertically integrated monopoly – RENEL – was split in. 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).

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 2009 are presented below split into categories:

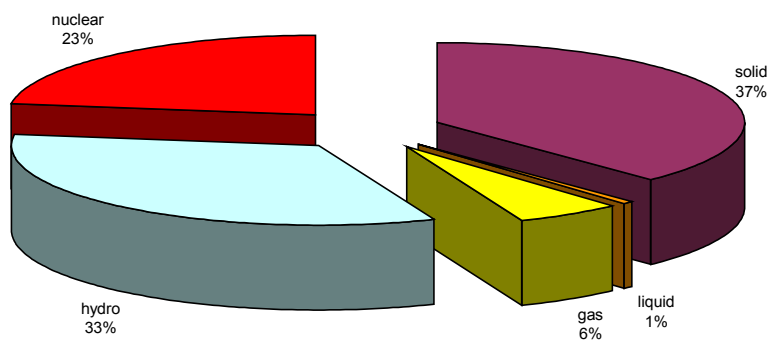
No.	Name	Comments
A Electricity generators operating dispatching units		
1	SC CET Bacău SA	
2	SC CET Braşov SA	
3	SC CET Govora SA	
4	SC CET Iaşi SA	
5	SC CET Oradea SA	
6	SC Electrocentrale Bucureşti SA	
7	SC Electrocentrale Galaţi SA	
8	SC Dalkia Termo Prahova SRL	
9	SNP Petrom Sucursala Petrobrazî	
10	SC Termica SA Suceava	
11	SC Termoelectrica SA	
12	SC Termoficare 2000 SA Piteşti	
13	SC Uzina Termică Giurgiu SA	
14	SN Nuclearelectrica SA	
15	SC CE Rovinari SA	
16	SC CE Turceni SA	
17	RAAN	
18	SC CE Craiova SA	Generators acting also as suppliers on the competitive market
19	SC CET Arad SA	
20	SC Electrocentrale Deva SA	
21	SC Hidroelectrica SA	
B Transmission System Operator		
1	CN TRANSELECTRICA SA	Balancing Market Operator
C DAM Operator		
1	SC OPCOM SA	Operator of the Green Certificates Market, Bilateral Contracts Market and Settlement Administrator
D Distribution network operators		
1	SC CEZ Distributie SA	Operators of the distribution network
2	SC ENEL Distributie Banat SA	
3	SC ENEL Distributie Dobrogea SA	
4	SC E.ON Moldova Distributie SA	
5	SC ENEL Distributie Muntenia SA	
6	SC FDEE Electrica Distributie Muntenia Nord SA	
7	SC FDEE Electrica Distributie Transilvania Sud SA	
8	SC FDEE Electrica Distributie Transilvania Nord SA	
E Incumbent suppliers		
1	SC CEZ Vanzare SA	Incumbent suppliers acting also as suppliers on the competitive market
2	SC ENEL Energie SA	
3	SC E.ON Moldova Furnizare SA	
4	SC ENEL Energie Muntenia SA	
5	SC FFEE Electrica Furnizare Muntenia Nord SA	
6	SC FFEE Electrica Furnizare Transilvania Sud SA	
7	SC FFEE Electrica Furnizare Transilvania Nord SA	

No.	Name
F	Electricity Suppliers acting exclusively on the wholesale market
1	SC Atel Energy Romania SRL
2	SC CEZ as
3	SC CEZ Trade Romania SRL
4	SC EFT Romania SRL
5	SC Electrabel Romania SRL
6	SC Encaz SRL
7	SC Enel Trade Romania SRL
8	SC Energy Market Consulting SRL
9	SC E.ON Energy Trading AG
10	SC Eco Energy SRL
11	SC Edison Trading SpA
12	SC Ezpada SRL
13	SC Global Electric Trading SRL
14	SC Grivco SA
15	SC Inteltra SRL
16	SC Jas Budapest Zrt
17	SC Korlea Invest SRL
18	SC Merrill Lynch Commodities (Europe)
19	SC Re Energie SRL
20	SC Romelectro SA
21	SC Rudnap SRL
22	SC RBS Semptra Energy Europe Ltd
23	SC Statkraft Romania SRL
24	SC Transelectric Power SA
No.	Name
G	Electricity Suppliers
1	SC Alro SA
2	SC Also Energ SA
3	SC Arelco Distributie SRL
4	SC Beny Alex SRL
5	SC Biol Energy SRL
6	SC Buzmann Industries SRL
7	SC EFE Energy SRL
8	SC EGL Gas & Power Romania SA
9	SC Ehol Distribution SRL
10	SC Elcomex EN SRL
11	SC Electrica SA
12	SC Electricom SA
13	SC Electromagnetica SA
14	SC Energotrans
15	SC Energy Holding SRL
16	SC Energy Network SRL
17	SC Enex SRL
18	SC Ennet Grup SRL
19	SC Enol Grup SA
20	SC EURO-PEC SA
21	SC Fidelis Energy SRL
22	SC GDF SUEZ Energy Romania SA
23	SC General Com Invest SRL
24	SC Geveco SRL
25	SC Hydroconstructia SA
26	SC ICCO Electric SRL
27	SC ICPE Electrocond Technologies SA
28	SC Luxten LC SA
29	SC Petprod SRL
30	SC Renovation Trading SRL
31	SC Tinmar Ind SA
32	SC Total Electric Oltenia SA
33	SC Transenergo Com SA
34	SC UCM Energy SRL

*) 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.

3. Generation structure of National Energy System on resources types

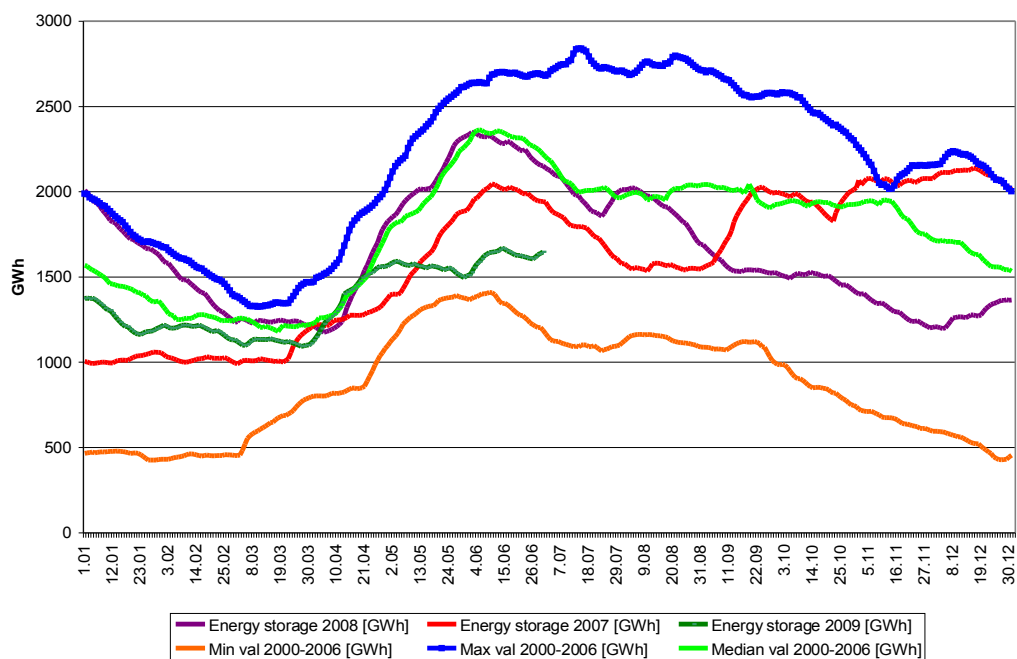
Electricity structure by primary sources
(delivered by generators with dispatchable units)
June 2009



Source: Monthly reports of generators – processed by MG

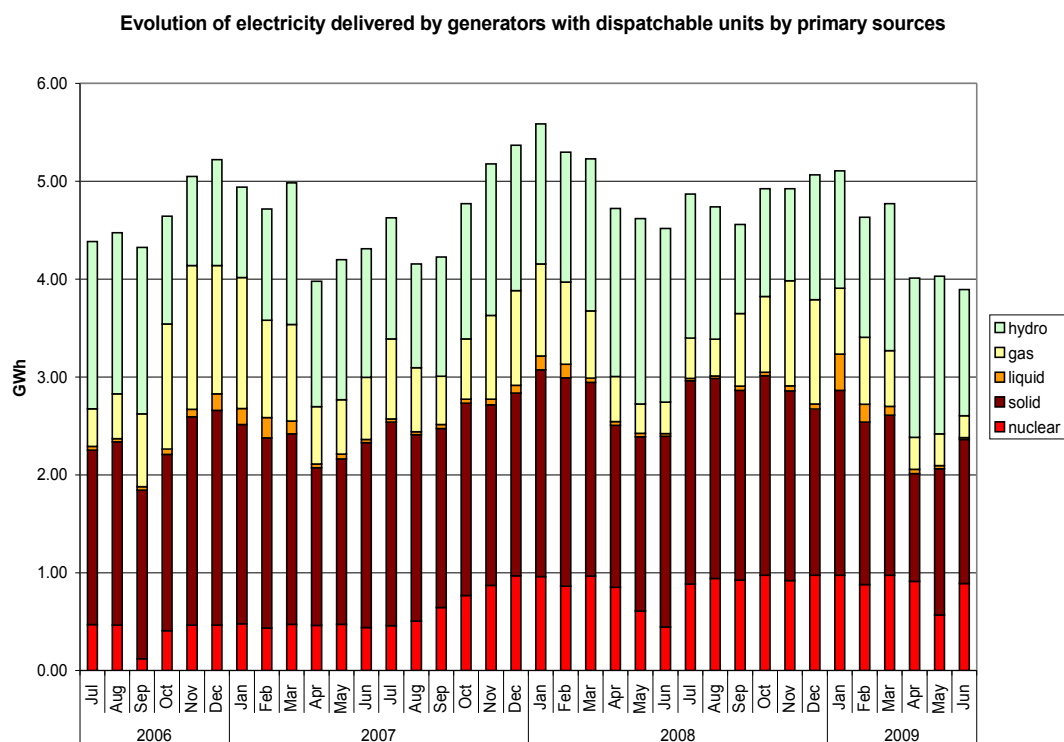
The electricity generated from hydro resources depends on and at the same time influences the energy stored in the main water reservoirs. The following graph presents the evolution of daily amounts of energy storage in June 2009 compared to daily values in 2007 and 2008 and to minimum, maximum and median values during 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, starting with July 2006, 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 2009 and for the first 6 months of 2009, compared to data for similar periods of 2008:

No.	Indicator	MU	June 2008	June 2009	%	Jan-June 2008	Jan-June 2009	%
0	1	2	3	4	$5=4/3*100$	6	7	$8=7/6*100$
1	Generated electricity	TWh	4.84	4.17	86.23	32.51*	28.53	87.77
2	Delivered electricity	TWh	4.52	3.90	86.23	29.99*	26.45	88.20
3	Import	TWh	0.08	0.04	51.13	0.40	0.43	107.55
4	Export	TWh	0.33	0.16	47.15	2.90	2.07	71.58
5	Internal consumption	TWh	4.27	3.78	88.61	27.49*	24.80	90.23
6	Consumption of household consumers on the regulated market	TWh	0.80	0.82	102.50	5.20	5.56	106.92
7	Consumption of non-households consumption	TWh	2.95	2.46	83.39	17.99	14.97	83.21
7.1	on the regulated market	TWh	1.03	1.01	98.06	6.56	6.25	95.27
7.2	on the competitive market	TWh	1.92	1.45	75.52	11.43	8.72	76.29
8	Transmission – Injection component	TWh	4.42	3.78	85.43	29.41	25.91	88.09
9	Transmission – Extraction component	TWh	4.50	3.85	85.61	29.84	26.40	88.44
10	System services	TWh	4.50	3.85	85.61	29.84	26.40	88.44
11	Actual transmission grid losses	TWh	0.09	0.08	96.11	0.51	0.49	95.32

12	Heat generated for delivery	Tcal	705.86	611.17	86.58	10903.06	10081.08	92.46
13	Heat in co-generation	Tcal	567.69	405.11	71.36	8860.36	8338.91	94.11

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 Transelectrica 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.

* Data published into Report on monitoring results of the electricity market – June 2008 were modified due to some corrections made by market participants

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) and on BM (Balancing Market).

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 table below for June 2009 compared to the volumes of the month before and June 2008:

TRANSACTIONS ON THE WHOLESALE MARKET	May 2009	June 2009	June 2008
1. BILATERAL CONTRACTS' MARKET			
traded volume (GWh)	4965	4822	5236
average price (lei/MWh)	154.47	154.20	136.72
1.1. Sales on regulated contracts			
traded volume (GWh)	2077	2107	2257
% from internal consumption (%)	53.7	55.8	52.9
average price (lei/MWh)	154.41	150.92	133.49
1.2. Sales on negotiated contracts*			
traded volume (GWh)	2888	2715	2979
% from internal consumption (%)	74.7	71.8	69.9
average price (lei/MWh)	154.52	156.74	139.17
2. EXPORT			
traded volume** (GWh)	202	155	330
% from internal consumption (%)	5.2	4.1	7.7
average price (lei/MWh)	159.68	152.82	167.98***
3. CENTRALISED MARKETS OF CONTRACTS			
traded volume (GWh)	479	435	674
% from internal consumption (%)	12.4	11.5	15.8
average price (lei/MWh)	192.48	188.38	178.09
4. DAY AHEAD MARKET			
traded volume (GWh)	572	616	400
% from internal consumption (%)	14.8	16.3	9.4
average price (lei/MWh)	140.52	139.11	180.27

5. BALANCING MARKET			
traded volume (GWh)	172	239	222
% from internal consumption (%)	4.4	6.3	5.2
upward volume (GWh)	72	66	109
average negative imbalance price (lei/MWh)	257.36	241.12	256.52
downward volume (GWh)	100	173	113
average positive imbalance price (lei/MWh)	43.07	96.18	79.18
INTERNAL CONSUMPTION (includes distribution and transmission losses) (GWh)	3867	3779	4265

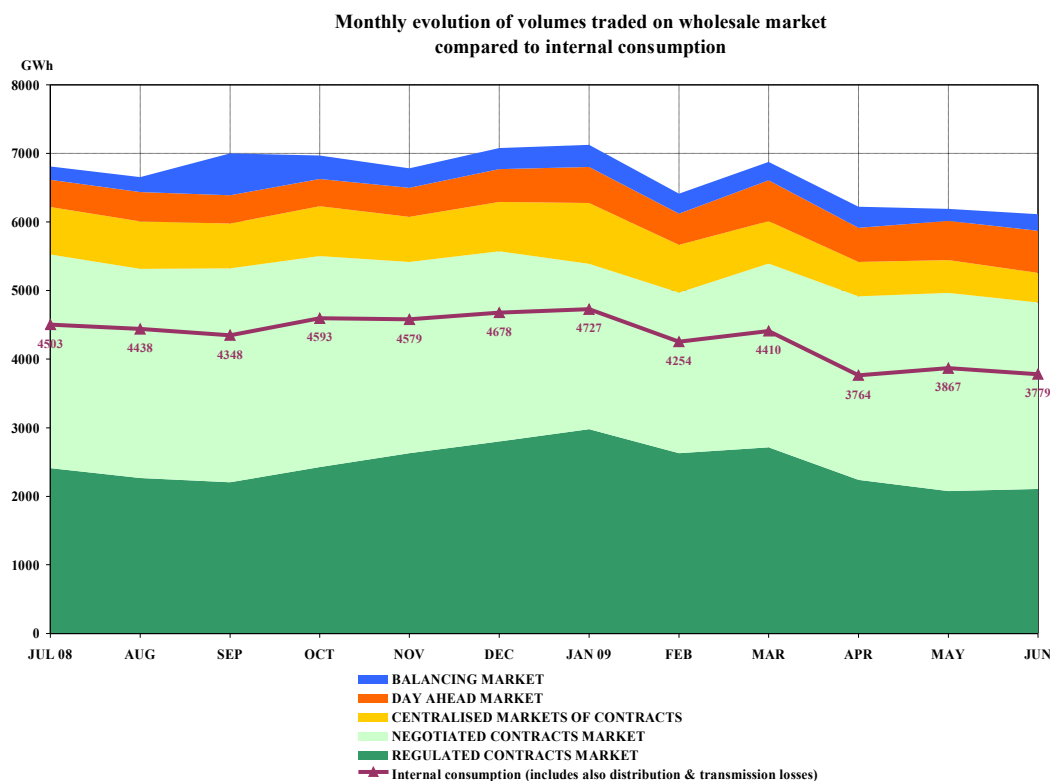
Note: * Contracts of supply to consumers and contracts of export are not included

** Export volumes correspond to the quantities for which CN Transelectrica SA applied extraction component of transmission tariff for export, which in some cases are different to those reported as traded by participants

*** Prices in June 2008 are calculated as average of prices reported by the participants; all prices include injection component of transmission tariff, most of them include the extraction component, system service and market administration tariffs and only few of them include value of interconnection capacity.

The relevance of comparison between the above prices is affected by the fact that, in 2008, the value of injection component of the transmission tariff was not included in all categories of prices; thus, the average selling price on DAM/BM totally included this tariff component, the average selling price for negotiated contracts included it only partially, while the average selling price for regulated contracts did not include it at all. In 2008, the prices for export trades were not reported in an unified manner, but as the **Note** ***) above. Starting with January 2009, all prices are including 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.

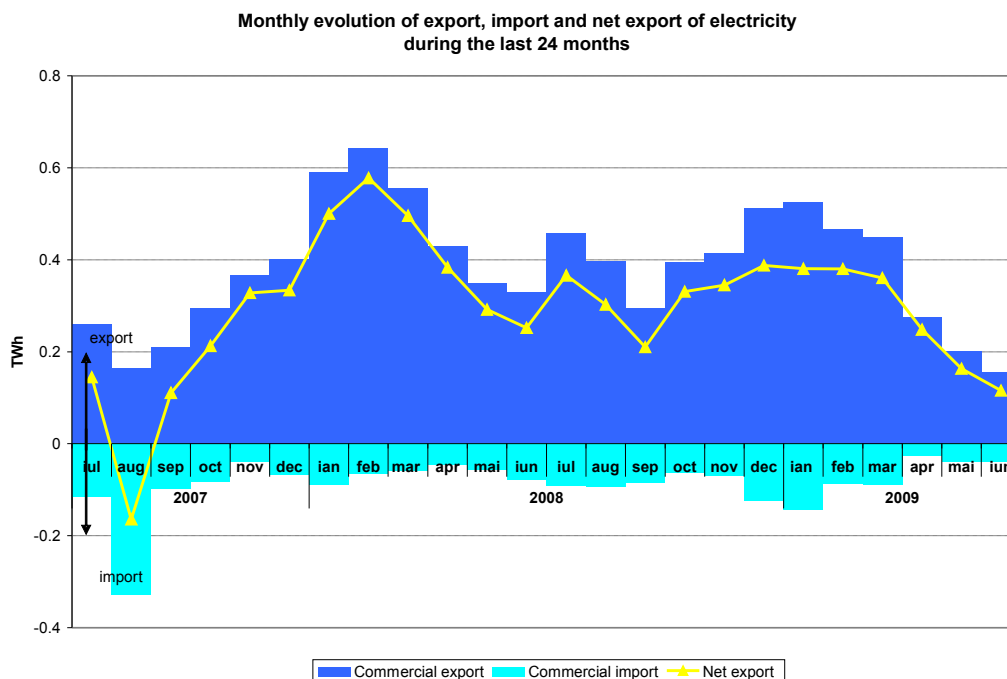
The evolution of the relation between the volumes sold on each market and the estimated internal consumption, for July 2008 – June 2009, is presented below:



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

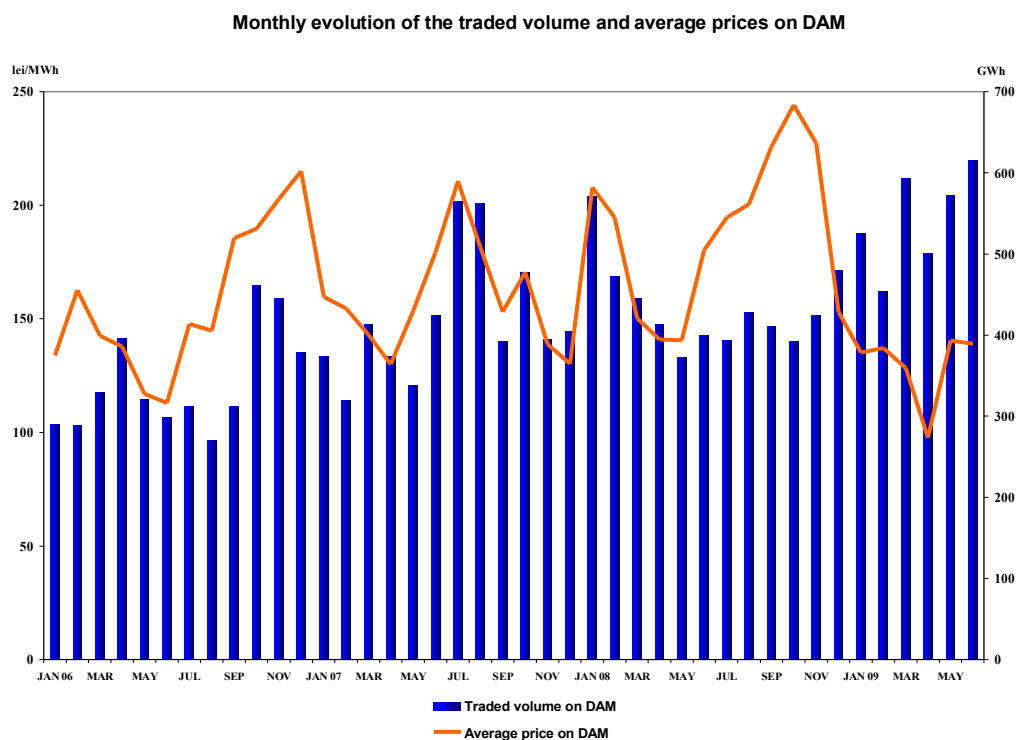
Note: In the above graph, the volumes traded on negotiated contracts' market do not include the export trades

The following graph represents 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 Transelectrica SA – processed by MG

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



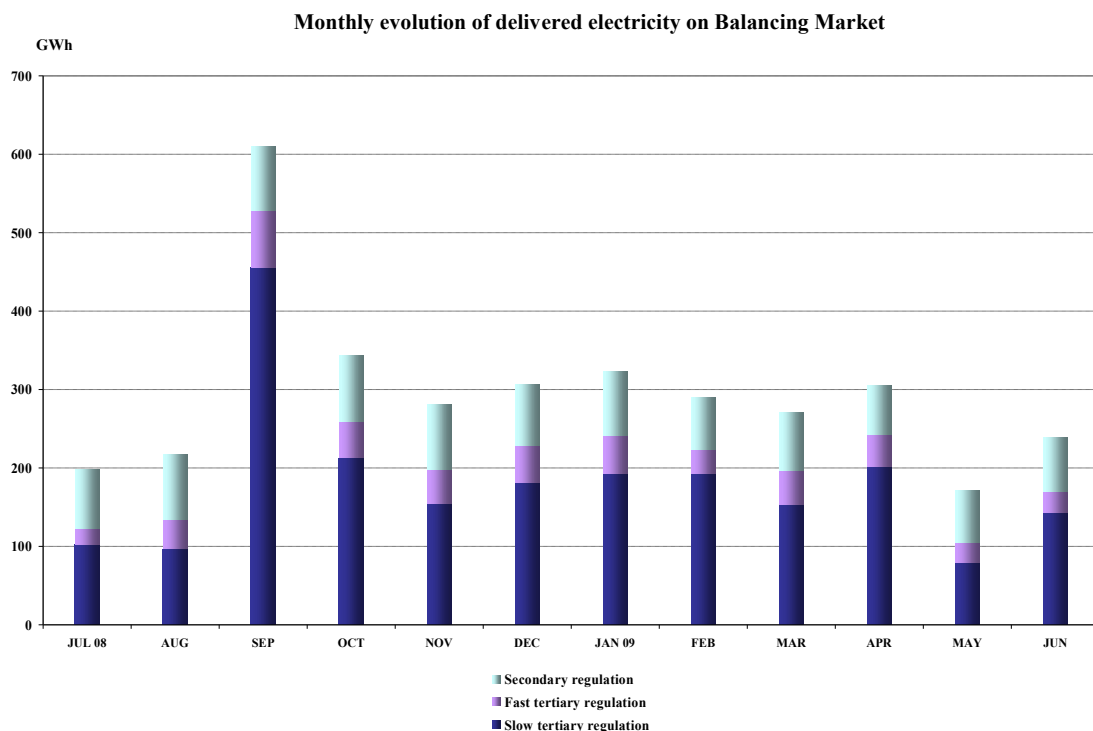
Source: Monthly reports of SC Opcom SA and CN Transelectrica SA – processed by MG

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 2009 is presented in the following table:

June 2009	Dispatch order (GWh)	Delivered electricity (GWh)	Deviation (%)
Secondary regulation	70	70	0
<i>upward</i>	30	30	0
<i>downward</i>	40	40	0
Fast tertiary regulation	34	27	21
<i>upward</i>	18	16	11
<i>downward</i>	16	11	33
Slow tertiary regulation	159	142	10
<i>upward</i>	22	20	11
<i>downward</i>	137	123	10
TOTAL	263	239	
<i>upward</i>	70	66	
<i>downward</i>	192	173	
INTERNAL CONSUMPTION		3779	
% share of traded volumes from internal consumption		6.3%	

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

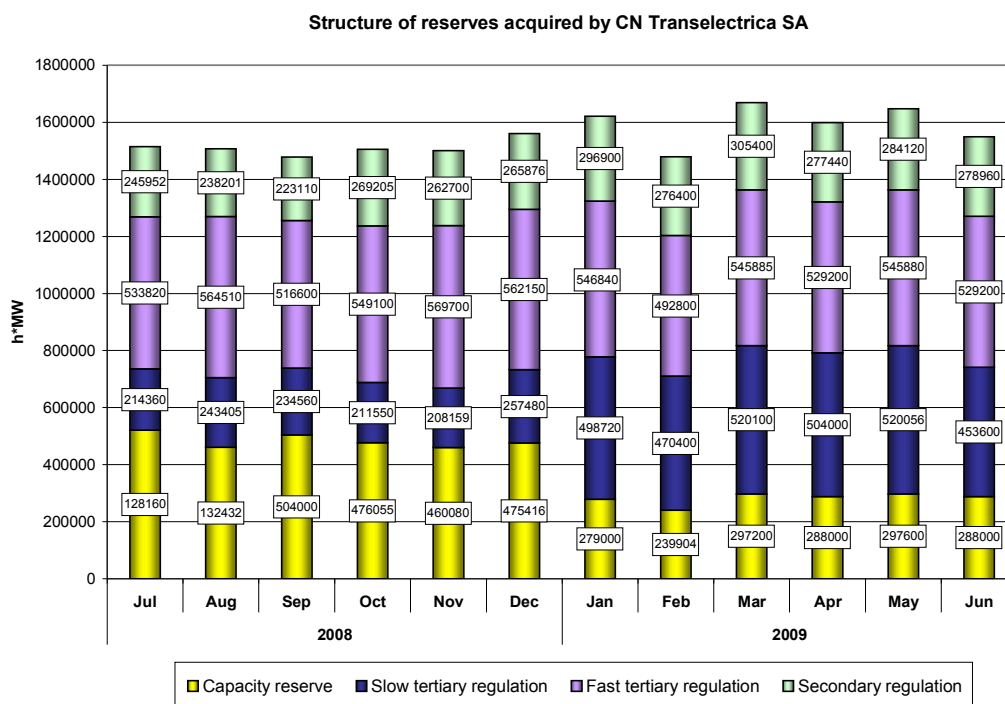
The structure of balancing electricity delivered in the system on each type of regulation between July 2008 – June 2009 is presented in the graph below:



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

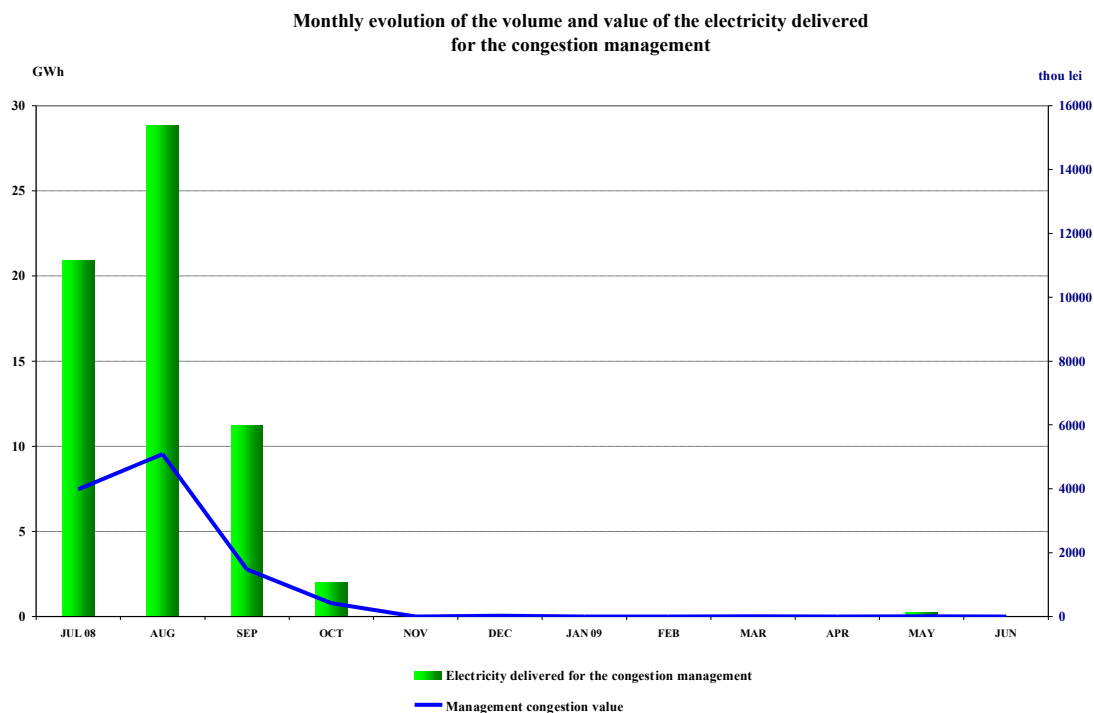
For comparison, the following graph presents the evolution of reserves (ancillary services, i.e. obligations of generators to maintain their contracted capacities available for

dispatching/offering on BM) acquired/paid by CN Tranelectrica SA during July 2008 – June 2009.



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

The following graph presents the last 12-months evolution of electricity traded by CN Tranelectrica 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.



Source: Monthly reports of CN Tranelectrica 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 2009 compared to previous month and June 2008 was the following:

- GWh -

Transaction type	May 2009	June 2009	June 2008
0	1	2	3
Regulated to incumbents, thermal generators	871.55	858.12	1014.02
Regulated to incumbents, hydro generator	419.85	336.42	387.07
Regulated to incumbents, nuclear generator	305.37	375.35	310.30
Regulated for distribution losses, thermal generators	220.89	200.97	247.84
Regulated for distribution losses, hydro generator	83.73	73.97	102.54
Regulated for distribution losses, nuclear generator	90.04	108.14	90.83
Regulated for transmission losses, thermal generator	69.85	73.43	78.66
Regulated, to other generators (with return of obligation within a year)	15.80	80.63	26.11
Regulated to other generators, activated on request, with option premium	0.00	0.00	0.00
Negotiated, to distributors	0.00	0.00	0.00
Negotiated, to other generators	77.09	148.18	90.32
Negotiated, to suppliers	1052.29	939.56	1341.52
Contracts concluded on centralized markets (CMBC, CMBC-NC, RCE)	475.77	431.09	587.78
Supply to consumers (regulated and competitive)	198.84	177.69	234.62
Export	104.88	103.16	121.71
DAM	237.67	324.88	161.41
Total	4223.62	4231.58	4794.73

Source: Monthly reports of generators – processed by MG

Suppliers

In June 2009, 65 companies having as main activity the supply of electricity concluded transactions on the electricity market; from these, 24 suppliers traded electricity exclusively on the wholesale market and 41 suppliers on both retail and wholesale markets (in this category are also included the 7 incumbent suppliers).

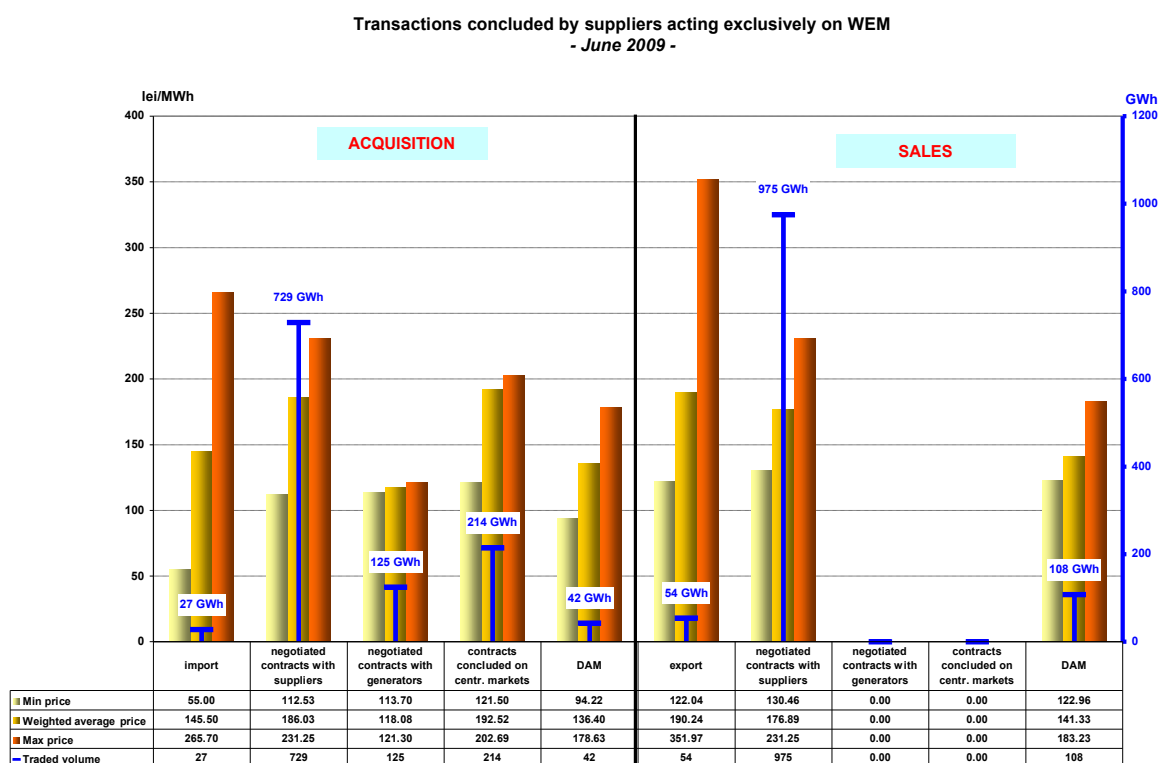
Suppliers acting exclusively on WEM

The following table shows the activity for June 2009 compared to June 2008 of the suppliers acting exclusively on WEM, acquisitions and sales being split by categories of markets/participants:

- GWh -

Transactions' structure of suppliers acting exclusively on WEM	June 2008	June 2009
Acquisitions		
Import	4.60	27.38
Negotiated contracts with suppliers	521.50	729.11
Negotiated contracts with generators	241.66	124.53
Contracts concluded on centralized markets	107.54	214.10
DAM	42.06	42.41
Sales		
Export	184.21	54.00
Negotiated contracts with suppliers	653.57	975.04
Negotiated contracts with generators	48.25	-
Contracts concluded on centralized markets	-	-
DAM	30.93	107.91

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 2009:



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

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

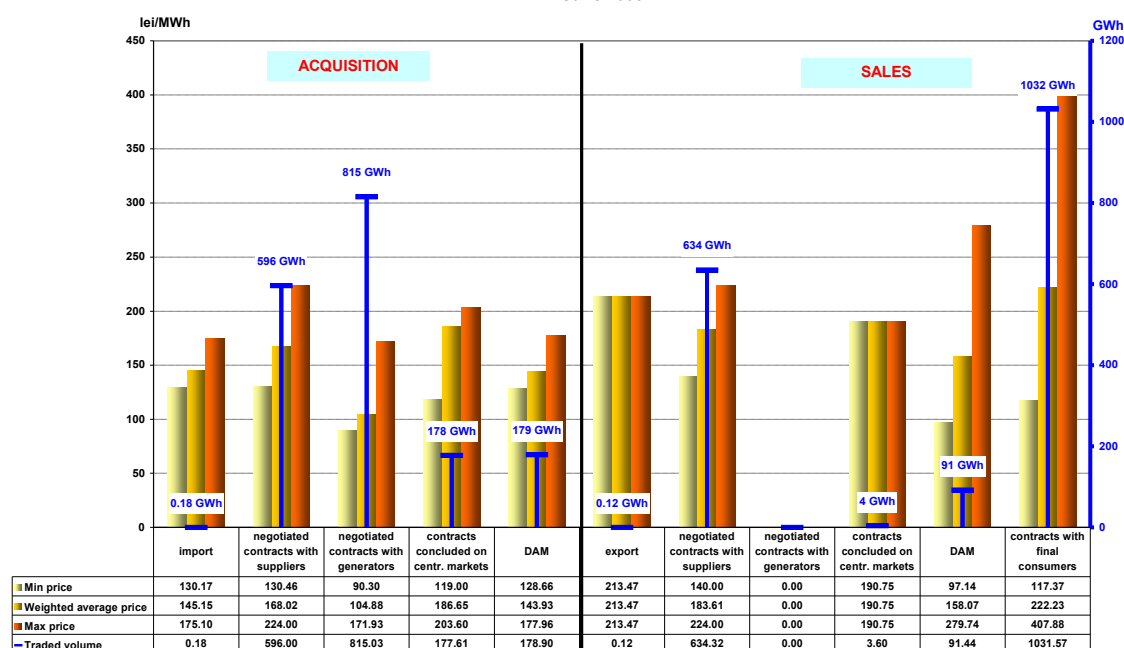
The following table presents aggregated information on acquisitions volume and structure for suppliers providing electricity to final consumers, on the competitive market, for June 2009 and June 2008.

- GWh -

Acquisition structure of suppliers providing electricity to final consumers (the incumbent suppliers are not included)	June 2008	June 2009
Import	49.94	0.18
Negotiated contracts with suppliers	727.31	596.00
Negotiated contracts with generators	1099.91	815.03
Contracts concluded on centralized markets	386.93	177.61
DAM	114.39	178.90

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 2009:

Transactions concluded by suppliers providing electricity to final consumers
(incumbent suppliers not included)
- June 2009 -



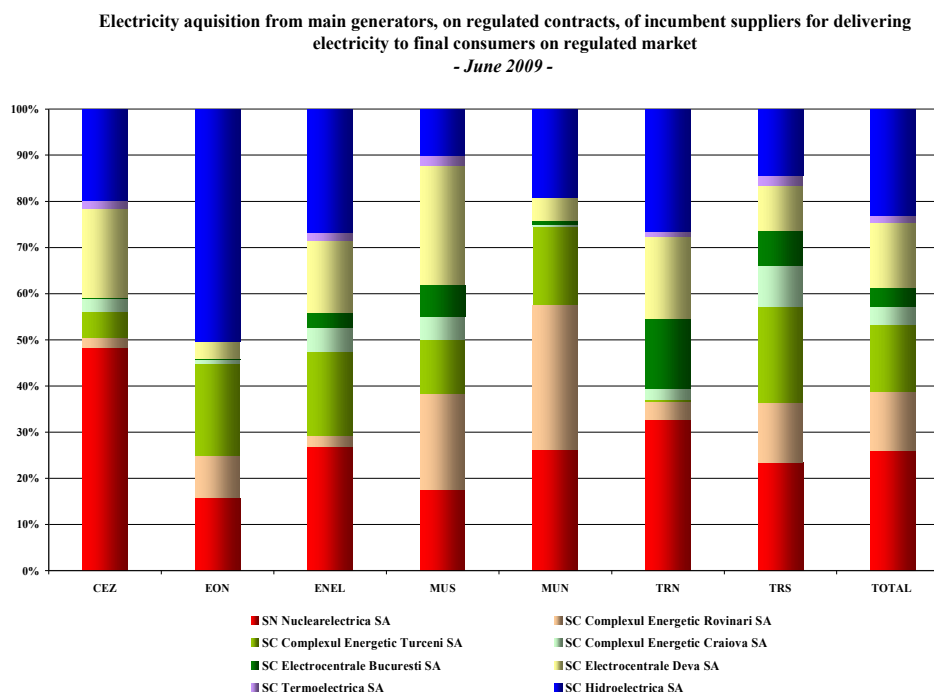
Source: Monthly reports of the competitive suppliers—processed by MG

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 2009 compared to the situation of June 2008:

- GWh -		
Acquisition structure of incumbent suppliers for regulated REM component	June 2008	June 2009
Regulated contracts with generators	1741.80	1604.39
Negotiated contracts	39.24	53.64
Contracts concluded on centralized markets	6.10	-
DAM	44.05	149.92

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 2009:



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

Likewise to the situation presented for the regulated REM, the table below presents the acquisition structure of incumbent suppliers (before the delivery day), corresponding to the competitive REM (energy supplied at negotiated prices to the consumers who renounced to regulated tariffs) for June 2009 compared to June 2008:

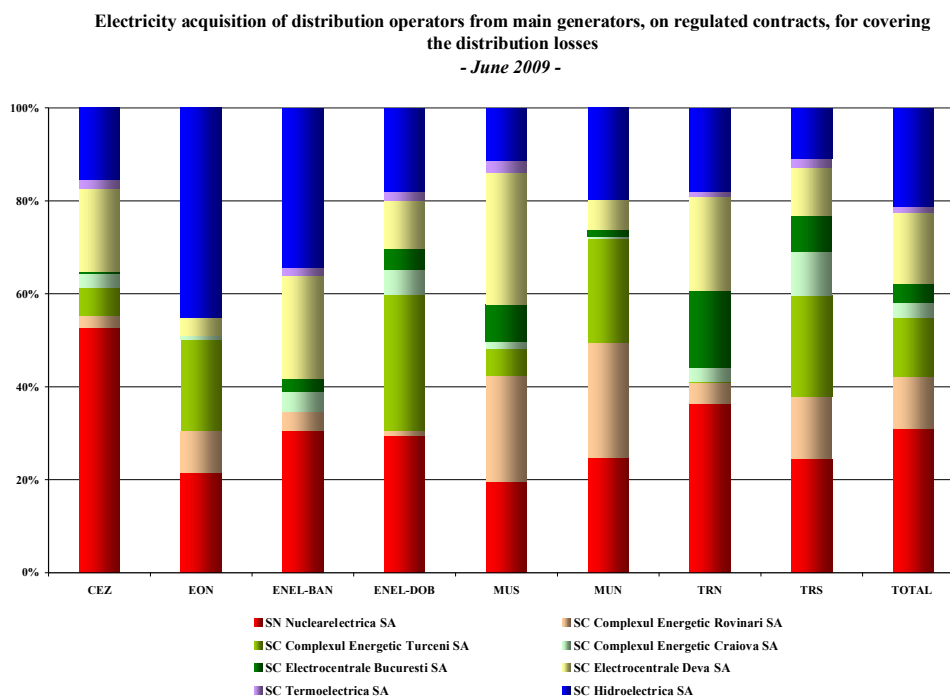
- GWh -		
Acquisition structure of incumbent suppliers for competitive REM component	June 2008	June 2009
Import	23.37	14.09
Negotiated contracts with suppliers	201.16	248.89
Negotiated contracts with generators	-	-
Contracts concluded on centralized markets	86.83	6.98
DAM	78.28	87.95

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 June 2009 compared to June 2008:

- GWh -		
Acquisition structure	June 2008	June 2009
Regulated contracts with generators	441.53	383.08
Negotiated contracts with suppliers	-	0.11
Contracts concluded on centralized markets	-	-
DAM	14.90	39.62

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 2009:



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

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

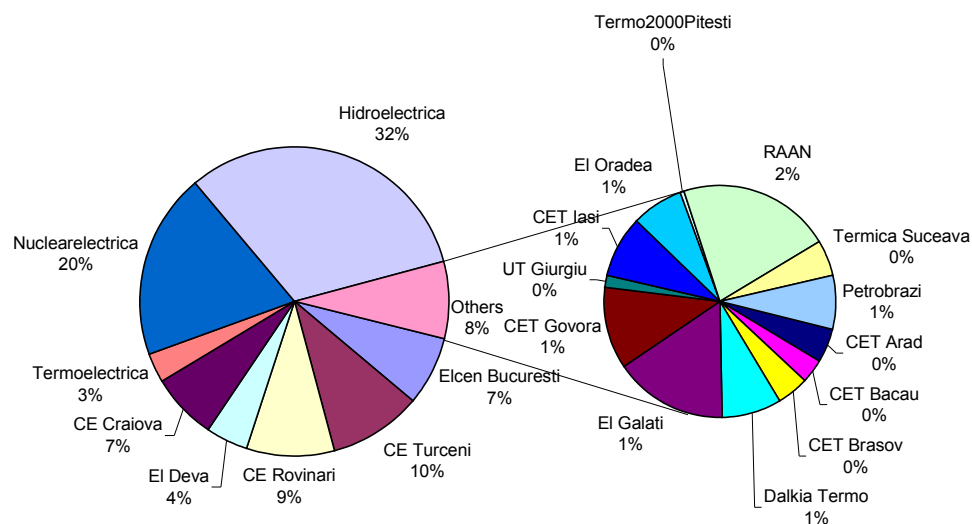
The market structure regarding the electricity generation offers an initial basis for analyzing the possible competitiveness level of the electricity market.

The following table presents the concentration indicators of electricity generation for June 2009, calculated based on electricity delivered into the networks by the generators with dispatchable units.

Concentration indicators - June 2009 -	C1 (%)	C3 (%)	HHI
Value	33	68	1983

The market shares of the electricity generators, taking into account all components of the wholesale electricity market, are presented in the following graph, during the first semester of 2009. These market shares are calculated based on the electricity delivered into networks.

**Market shares of generators with dispatchable units by delivered electricity
First semester 2009**



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 in June 2009 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:

Structure/concentration indicators on BM - June 2009 -	Regulation					
	Secondary		Fast tertiary		Slow tertiary	
	upward	downward	upward	downward	upward	downward
C1 (%)	61	62	37	32	47	49
C3 (%)	95	94	84	69	84	73
HHI	4339	4404	2597	2140	2999	2919

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 2009:

Concentration indicators on ASM - June 2009 -		Secondary reserve	Fast tertiary reserve	Slow tertiary reserve	Capacity reserve
regulated component	contracted quantity (h*MW)	278960	529200	252000	0
	C1 (%)	62.8	79.9	51.4	0
	C3 (%)	94.2	90.7	100	0
competitive component	contracted quantity (h*MW)	0	0	201600	288000
	C1 (%)	0	0	57.1	40.0
	C3 (%)	0	0	100	90
	HHI	0	0	4286	3203

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 2009, based on quantities traded by participants on this market.

Concentration indicators on DAM - June 2009 -	C1 (%)	C3 (%)	HHI
Buying transactions	19	41	810
Selling transactions	20	50	1054

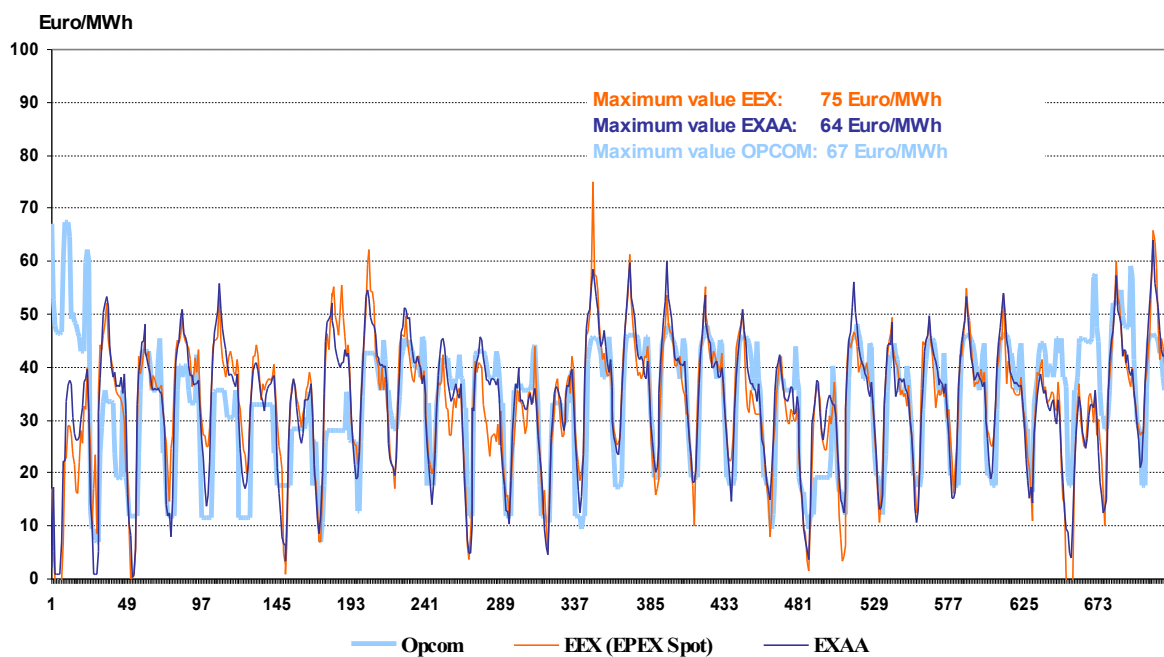
7. Price evolution on wholesale electricity market

SC Opcom SA is the administrator of DAM. The MCP on DAM represents a reference value for the prices on the bilateral contracts. The evolution of hourly and daily average prices on DAM in June 2009 is presented in the following graphs, along with the prices on EEX and 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.

HOURLY SPOT PRICES

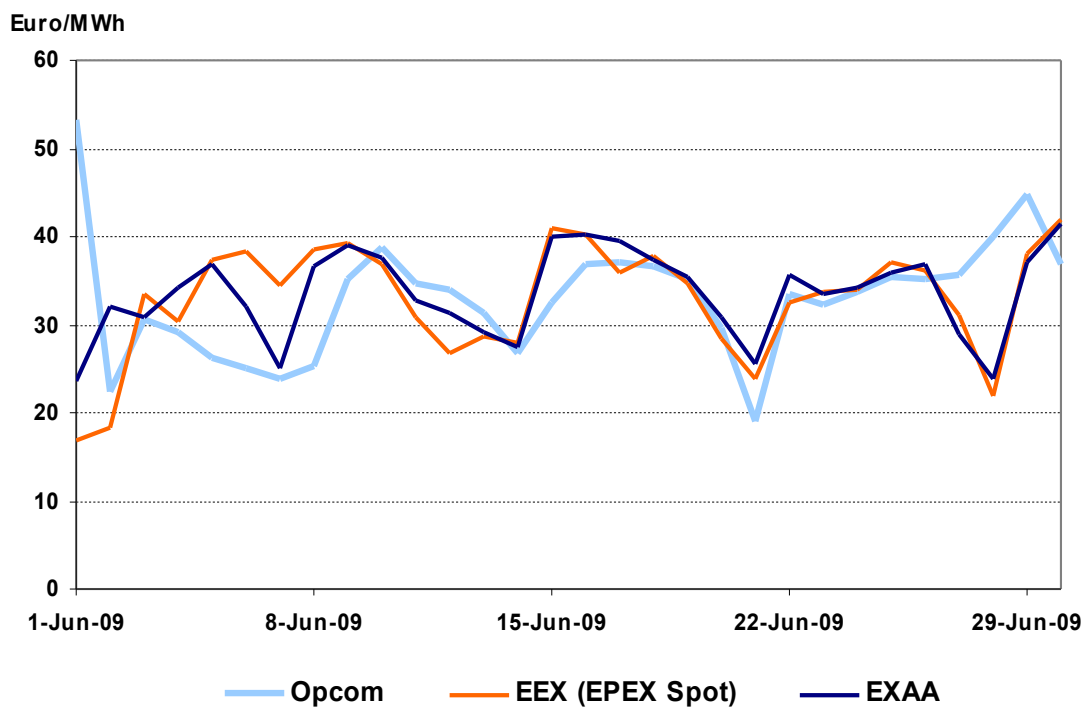
June 2009



Source: Daily reports of SC Opcom SA and published data of EXAA and EEX
– processed by MG

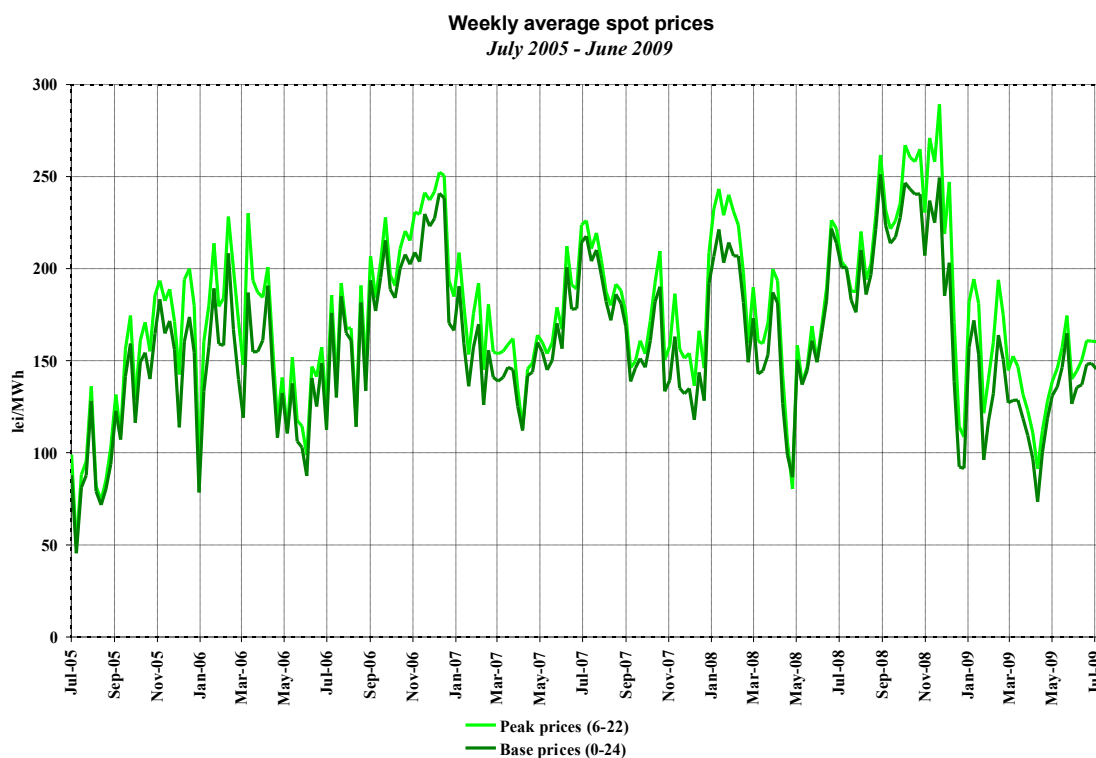
DAILY AVERAGE SPOT PRICES

June 2009



Source: Daily reports of SC Opcom SA and published data of EXAA and EEX
– processed by MG

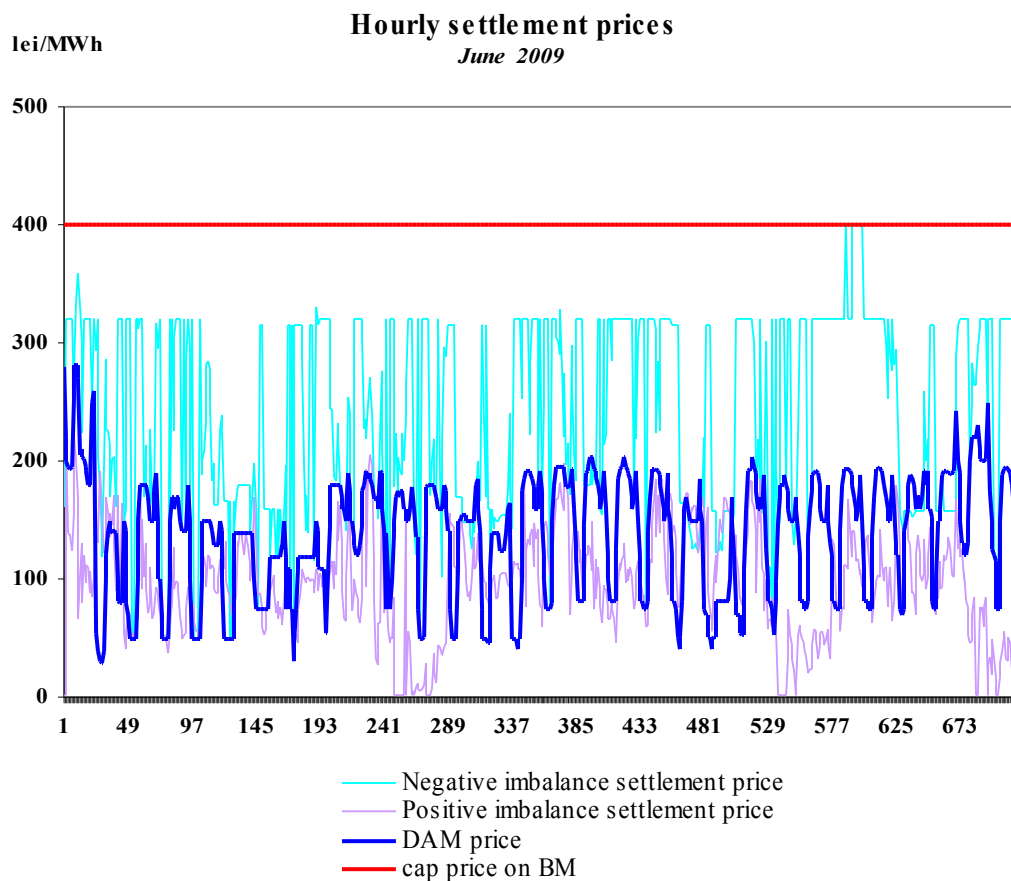
The following graph presents the evolution of weekly average spot prices starting with July 2005:



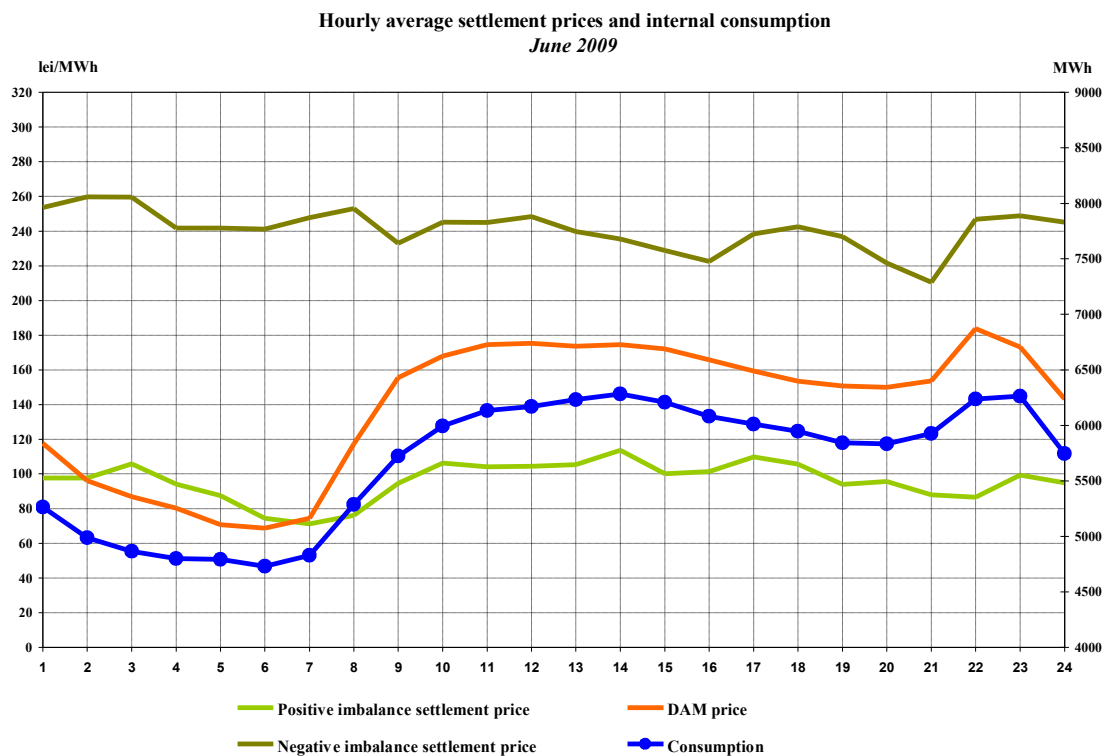
Source: Daily reports of SC Opcom SA – processed by MG

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.

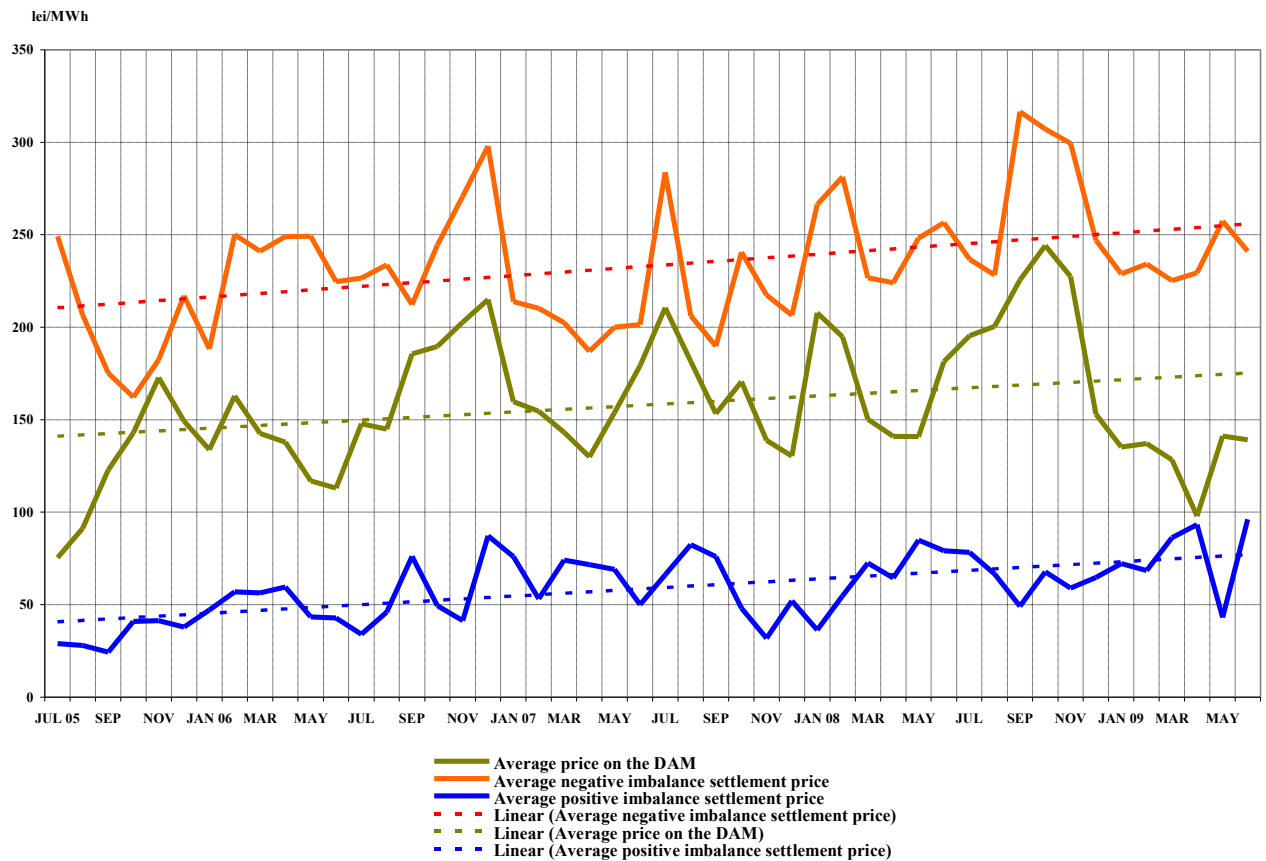


Source: Daily/monthly reports of SC Opcom SA – processed by MG



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

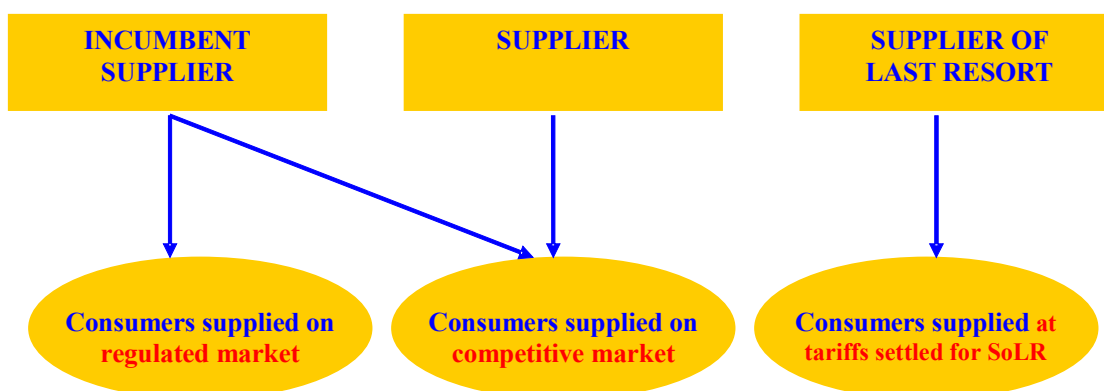
Monthly average prices on DAM and BM
July 2005 - July 2009



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

III. RETAIL ELECTRICITY MARKET

1. Structure of the retail electricity market

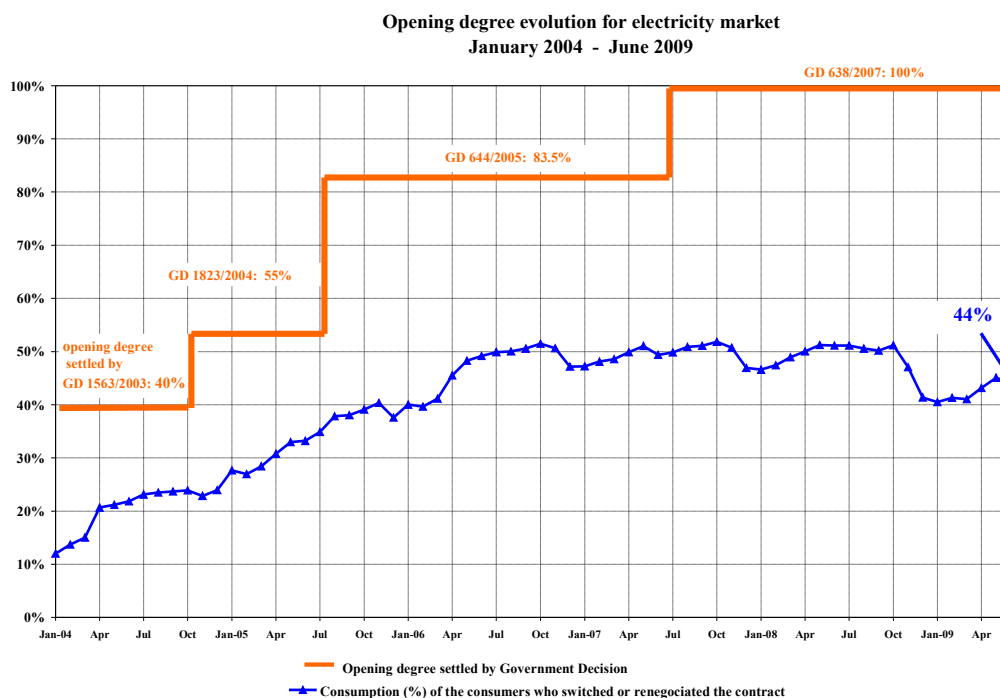


2. Steps in the opening process of the electricity market

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 2009. The values presented are cumulated from the beginning of the opening process and are presented monthly:

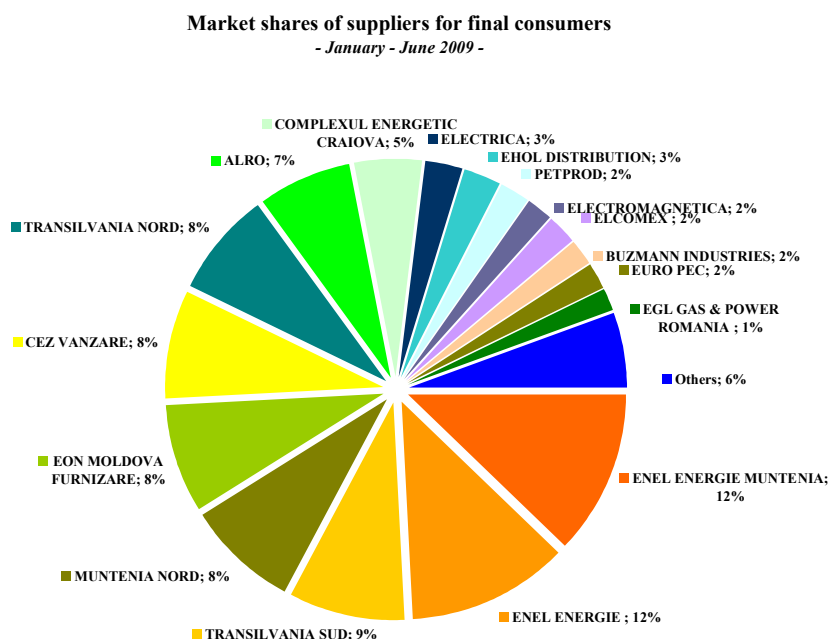


Source: Monthly reports of the final consumers' suppliers – processed by MG

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:

- 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;



Final consumption: 20534 GWh

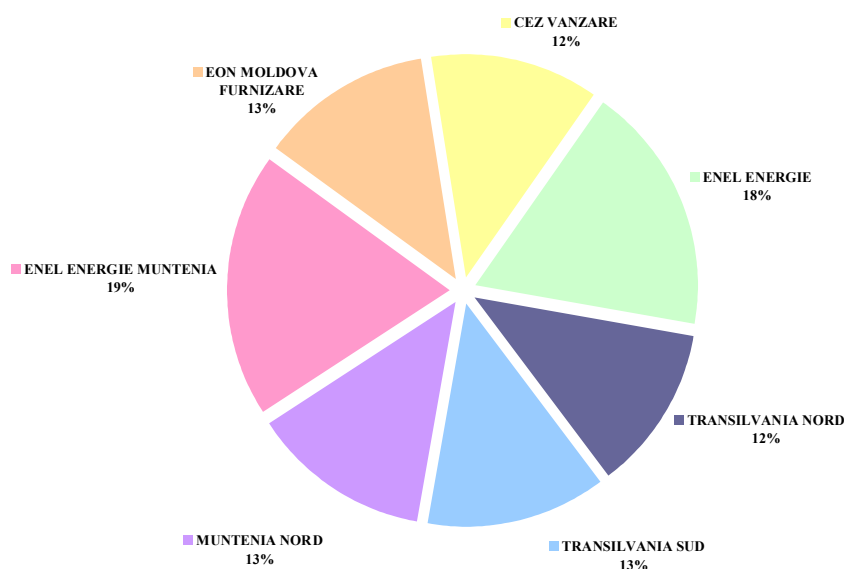
Category "Others" includes 29 suppliers with individual market share less than 1%

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

- for incumbent suppliers - based on the electricity supplied to the consumers at regulated tariffs,

Market shares of incumbent suppliers on regulated market

- January - June 2009 -



Consumption of consumers supplied at regulated tariffs: 11813 GWh

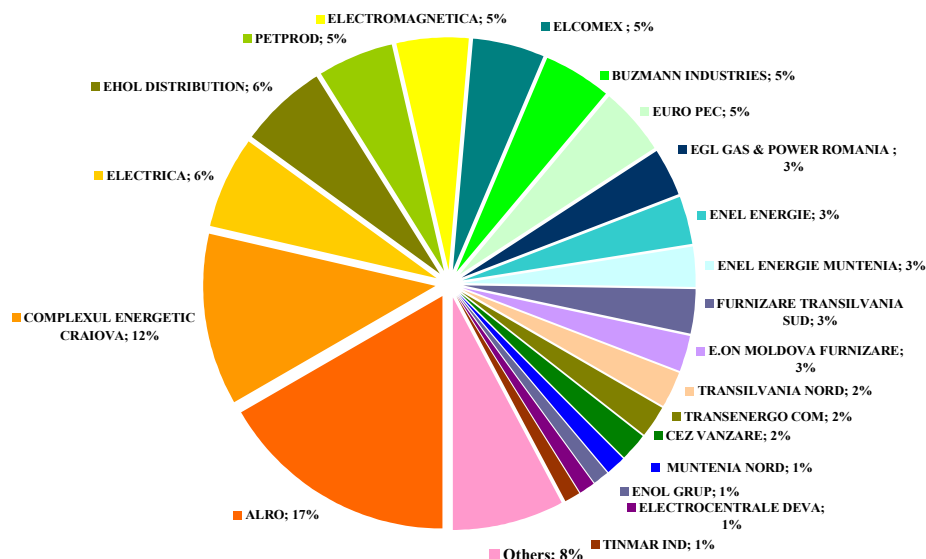
Source: Monthly reports of the incumbent suppliers – processed by MG

and

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

Market shares of suppliers delivering electricity on the competitive market

- January - June 2009 -



Consumption on competitive market: 8721 GWh

Structure indicators:

HHI - 689

C3 - 35%; C1 - 17%

Category "Others" includes 25 suppliers with individual market share less than 1%

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

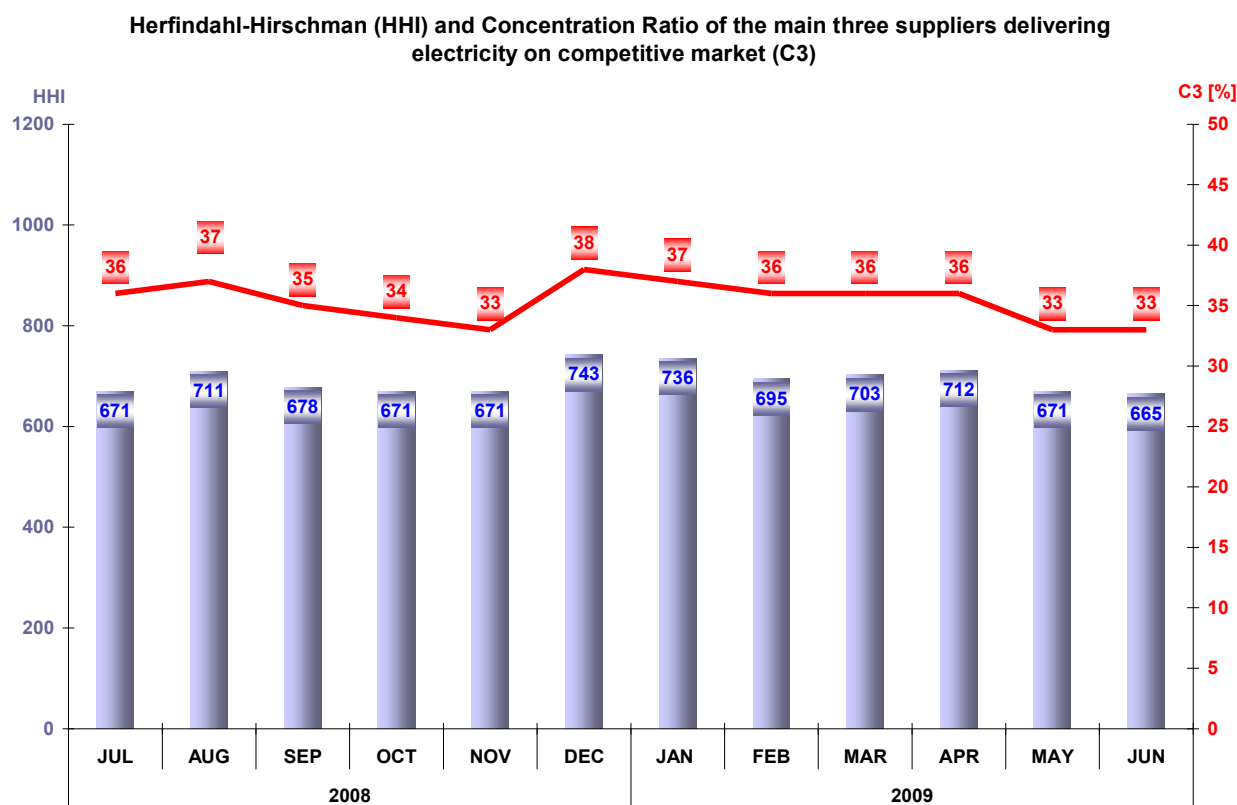
The electricity supplied to the final consumers used for calculating the market share of every supplier includes also the self-consumption of that particular supplier (e.g. consumers with supply license who buy electricity for themselves from WEM as competitive suppliers).

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 2009:

Number of suppliers - June 2009 -	Share of sales to final consumers from total sales transactions			
	100%	75% - 100%	50% - 75%	<50%
Competitive	9	8	7	10
Incumbent	4	2	0	1

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 in the following graph:



Source: Monthly reports of the suppliers – processed by MG

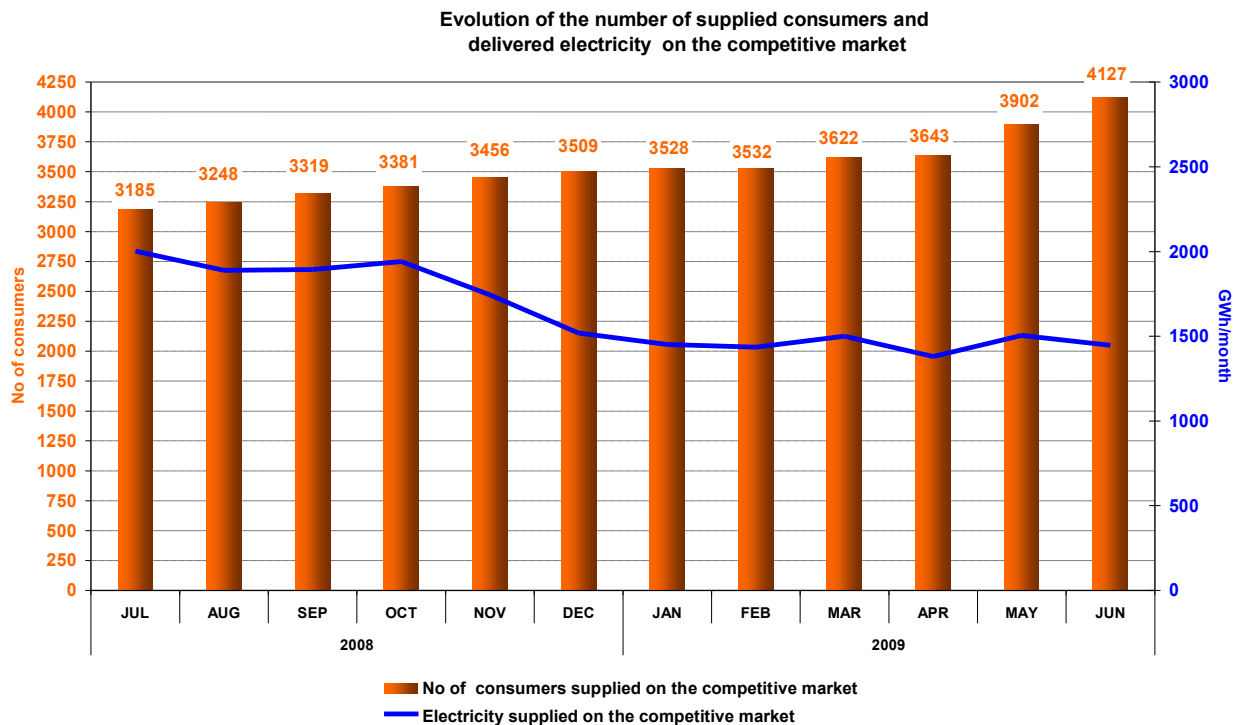
The table below shows the values of structure indicators of competitive component of REM in June 2009 and number of active suppliers, calculated for each consumer category as defined by the European Council Directive no. 90/377/EEC, modified by the Commission Decision no. 2007/394/EC:

Indicators - June 2009	Consumer category							Total REM
	IA	IB	IC	ID	IE	IF	Other	
C1 - % -	87	32	16	14	14	34	32	16
C3 - % -	92	59	35	36	37	50	63	32
HHI	7652	1587	783	701	724	1743	1785	665
Consumption - GWh -	2.8	32	91	294	185	104	737	1446
No. of SUPPLIERS	10	32	37	39	22	11	11	45
No. of incumbent suppliers	6	7	7	7	4	2	0	7
No. of competitive suppliers	3	23	27	30	17	9	8	34
No. of producers	1	2	3	2	1	0	3	4

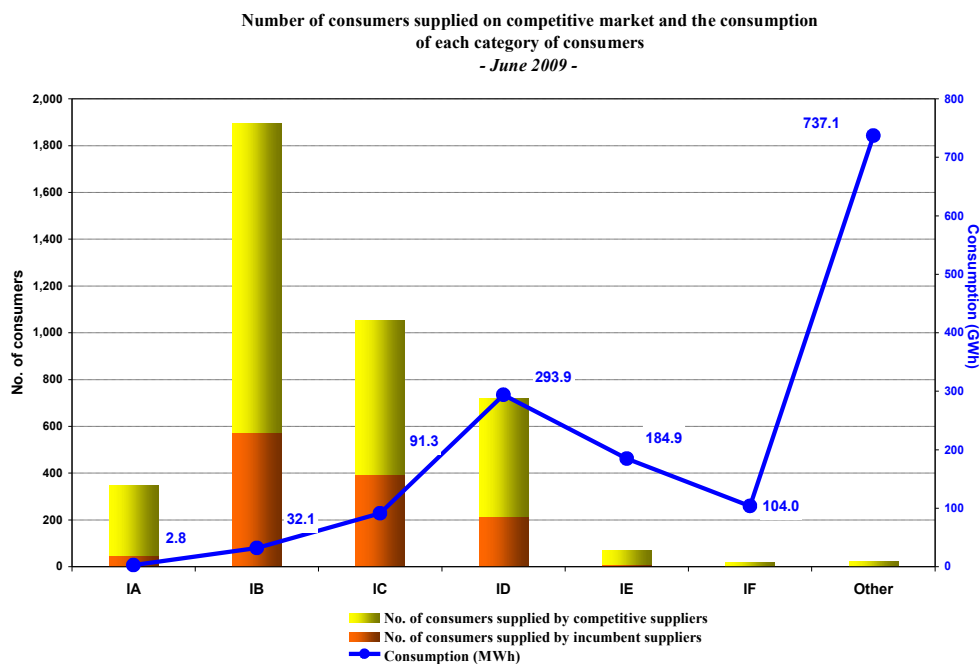
6. Evolution of consumers' number and of electricity delivered

Number of consumers supplied on the competitive market is presented as total value from the beginning of the market opening process; for June 2009 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	

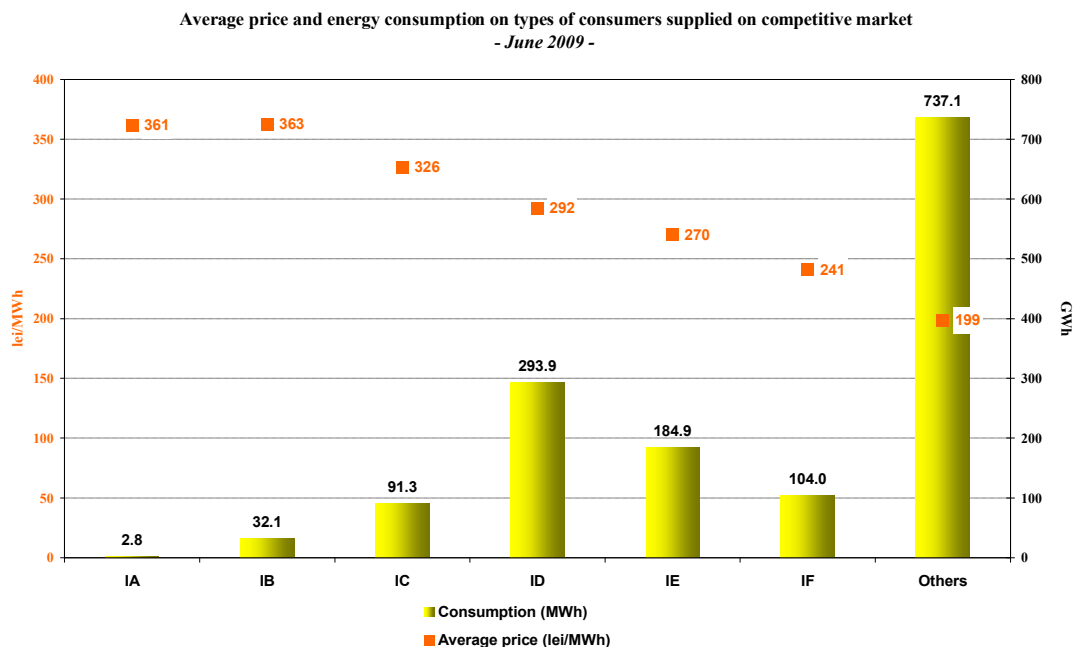


Source: Monthly reports of the competitive suppliers – processed by MG



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.



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, imbalances, BRP aggregated taxes, metering).

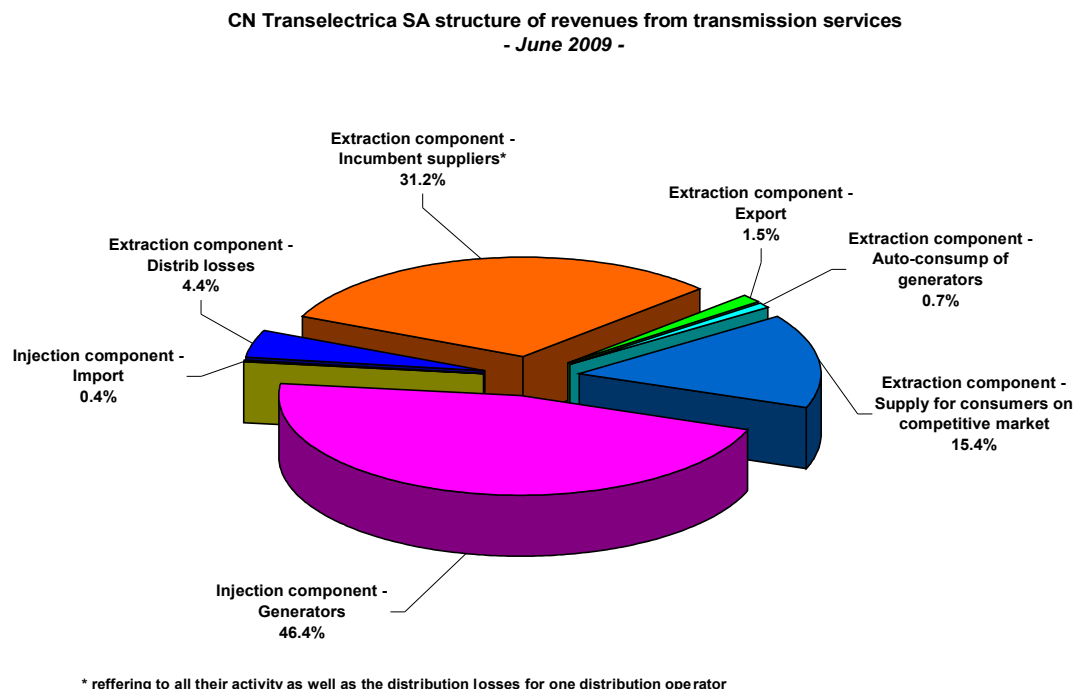
Splitting consumers into categories was based on their annual consumption forecast, according to the provisions of above mentioned Directive.

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 2009.

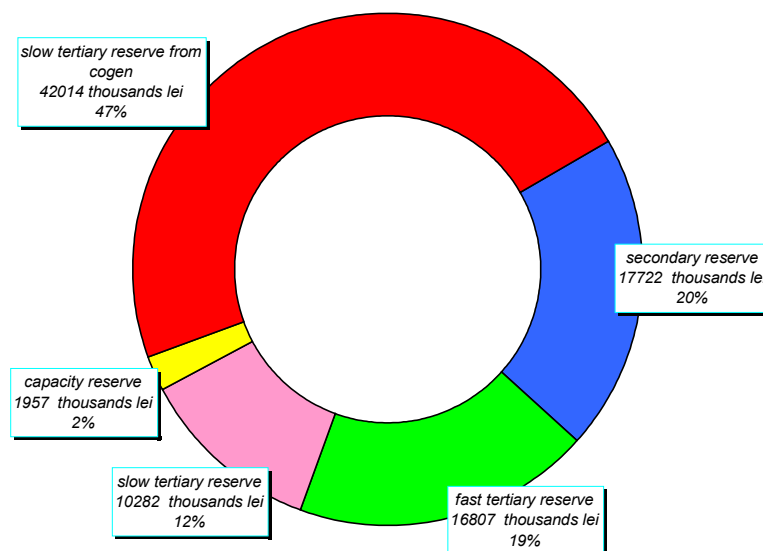


Source: Monthly reports of CN Transelectrica SA – processed by MG

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 used are: reserves for secondary, fast tertiary, slow tertiary regulation and slow tertiary reserve from cogeneration. Starting with July 2007, the rules for capacity reserve entered into force, by determination of the reserve dimensions, the way in which the suppliers of this service are selected and the conditions in which this new type of reserve may be used by CN Transelectrica SA.

The following graph presents the costs of ancillary services CN Transelectrica SA had to pay in June 2009. In order to cover these costs and its own operating costs, TSO applies a regulated tariff for system services.

Structure of CN Transelectrica SA costs with ancillary services acquired from qualified generators
- June 2009 -



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

V. EVOLUTION OF MARKET RULES IN JUNE 2009

- In June 2009, the following regulations concerning the functioning of the wholesale electricity market were issued:
 - Order no. 62/2009 issued by ANRE concerning *the Allocation procedure for the amount of money collected from the suppliers penalties for quota non-compliance*; the procedure describes the calculus for collecting the money from those suppliers which did not acquire green certificates as they were obliged to, as well as the way ANRE allocates the collected amount of money to the network operators, on voltage level and based on specific allocation indicators;
 - Order no. 67/2009 issued by ANRE modifying the *Methodology for establish, implement and use of the capacity reserve*; the provisions of this order specify shifting of the deadlines for entering into force of the transitory phase and for the definition and testing the market mechanisms for acquisition of capacity reserve;
 - Decision no. 1204/2009 issued by ANRE for modifying the ANRE Decision no. 2893/2008 regarding the acquisition of ancillary services from SC Electrocentrale București SA;
 - Decision no. 1381/2009 issued by ANRE concerning the parameters used for acquiring of the capacity reserve for second semester of 2009;
- There was also issued a regulation concerning the functioning of the retail electricity market:
 - Order no. 61/2009 issued by ANRE for appointing the suppliers of last resort between July 1st 2009 - June 30th 2010.

VI. 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 SNP 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
- EXAA – Energy Exchange Austria, 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