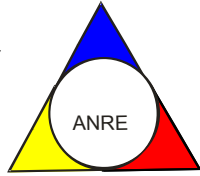




ROMANIAN ENERGY REGULATORY AUTHORITY
ELECTRICITY MARKET DEPARTMENT



REPORT ON RESULTS OF MONITORING THE
ROMANIAN ELECTRICITY MARKET
FEBRUARY 2009

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TABLE OF CONTENTS

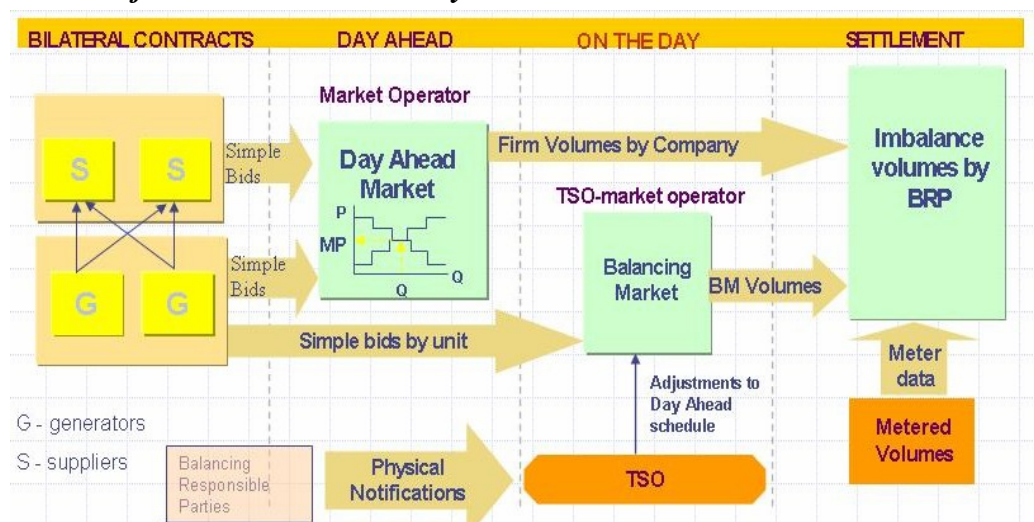
<u>I.MAIN EVENTS IN THE DEVELOPMENT OF THE ROMANIAN ELECTRICITY MARKET</u>	<u>3</u>
<u>II.WHOLESALE ELECTRICITY MARKET</u>	<u>3</u>
<u>1.Structure of the wholesale electricity market</u>	<u>3</u>
<u>2.Participants on the wholesale electricity market</u>	<u>4</u>
<u>3.Generation structure of National Energy System on resources types</u>	<u>5</u>
<u>4.Transactions' structure on the wholesale electricity market</u>	<u>7</u>
<u>5.Trading structure on the wholesale electricity market of different participant categories</u>	<u>12</u>
<u>Generators</u>	<u>12</u>
<u>Suppliers</u>	<u>13</u>
<u>Main distribution operators</u>	<u>15</u>
<u>6.Concentration indicators on the wholesale electricity market and its components</u>	<u>15</u>
<u>7.Price evolution on wholesale electricity market</u>	<u>18</u>
<u>III.RETAIL ELECTRICITY MARKET</u>	<u>22</u>
<u>1. Structure of the retail electricity market</u>	<u>22</u>
<u>2.Steps in the opening process of the electricity market</u>	<u>22</u>
<u>3.Electricity market opening degree</u>	<u>22</u>
<u>4.Market shares of the electricity suppliers</u>	<u>23</u>
<u>5.Concentration indicators of the competitive retail electricity market</u>	<u>25</u>
<u>6.Evolution of consumers' number and of the electricity delivered</u>	<u>26</u>
<u>7.Average selling prices of consumers supplied on the competitive market</u>	<u>28</u>
<u>IV.TRANSMISSION AND SYSTEM OPERATOR C.N. TRANSELECTRICA S.A.</u>	<u>29</u>
<u>V.EVOLUTION OF MARKET RULES IN FEBRUARY 2009</u>	<u>30</u>
<u>VI.EXPLANATIONS AND ABBREVIATION</u>	<u>30</u>

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

- **GD 365/1998** – vertically integrated monopol – 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 February 2009 are presented below split into categories:

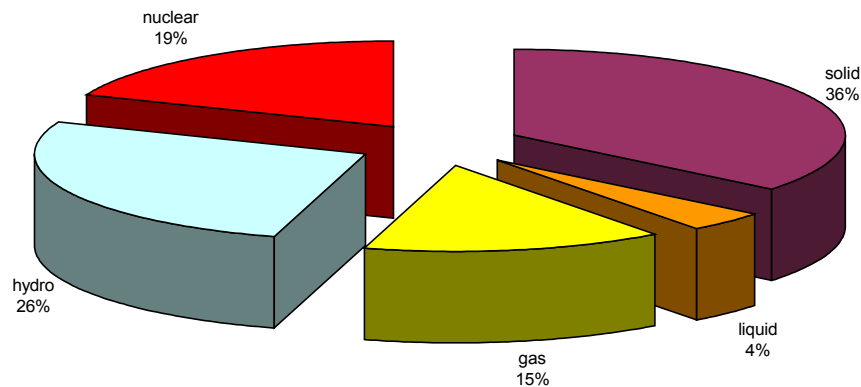
No.	Name	Comments
A Electricity generators operating dispatching units		
1	SC CET Bacau SA	
2	SC CET Brasov SA	
3	SC CET Govora SA	
4	SC CET Iasi SA	
5	SC CET Oradea SA	
6	SC Electrocentrale Bucuresti SA	
7	SC Electrocentrale Galati SA	
8	SC Dalkia Termo Prahova SRL	
9	SNP Petrom Sucursala Petrobrazi	
10	SC Termica SA Suceava	
11	SC Termoelectrica SA	
12	SC Termoficare 2000 SA Pitesti	
13	SC Uzina Termica 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 Trade Romania SRL
3	SC EFT Romania SRL
4	SC Electrabel Romania SRL
5	SC Encaz SRL
6	SC Enel Trade Romania SRL
7	SC Energy Market Consulting SRL
8	SC E.ON Energy Trading AG
9	SC Eco Energy SRL
10	SC Edison Trading SpA
11	SC Ezpada SRL
12	SC Global Electric Trading SRL
13	SC Grivco SA
14	SC Inteltra SRL
15	SC Jas Budapest Zrt
16	SC Korlea Invest SRL
17	SC Re Energie SRL
18	SC Romelectro SA
19	SC Rudnap SRL
20	SC RBS Sempra Energy Europe Ltd
21	SC Statkraft Romania SRL
22	SC Tinmar Trade SRL
G Electricity Suppliers	
1	SC Alro SA
2	SC Also Energ SA
3	SC Areco Distributie SRL
4	SC Beny Alex SRL
5	SC Biol Energy SRL
6	SC Buzmann Industries SRL
7	SC GDF SUEZ Energy Romania SA
8	SC EFE Energy SRL
9	SC EGL Gas & Power Romania SA
10	SC Ehol Distribution SRL
11	SC Elcomex EN SRL
12	SC Electrica SA
13	SC Electricom SA
14	SC Electromagnetica SA
15	SC Energotrans
16	SC Energy Holding SRL
17	SC Energy Network SRL
18	SC Enex SRL
19	SC Ennet Grup SRL
20	SC Enol Grup SA
21	SC EURO-PEC SA
22	SC Fidelis Energy SRL
23	SC General Com Invest SRL
24	SC Gevco SRL
25	SC Green Energy SRL
26	SC Hydroconstructia SA
27	SC ICCO Electric SRL
28	SC ICPE Electrocond Technologies SA
29	SC Interagro SA
30	SC Luxten LC SA
31	SC Petprod SRL
32	SC Tinmar Ind SA
33	SC Total Electric Oltenia SA
34	SC Transenergo Com SA
35	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

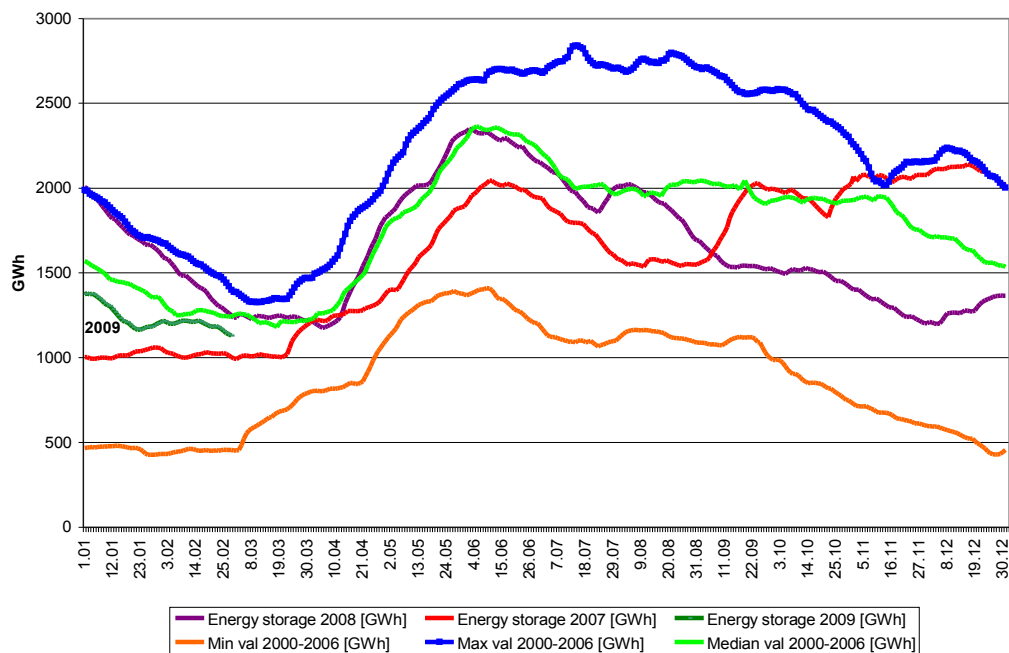
Electricity structure by primary sources
(delivered by generators with dispatchable units) in February 2009



Source: Monthly reports of generators – processed by MG

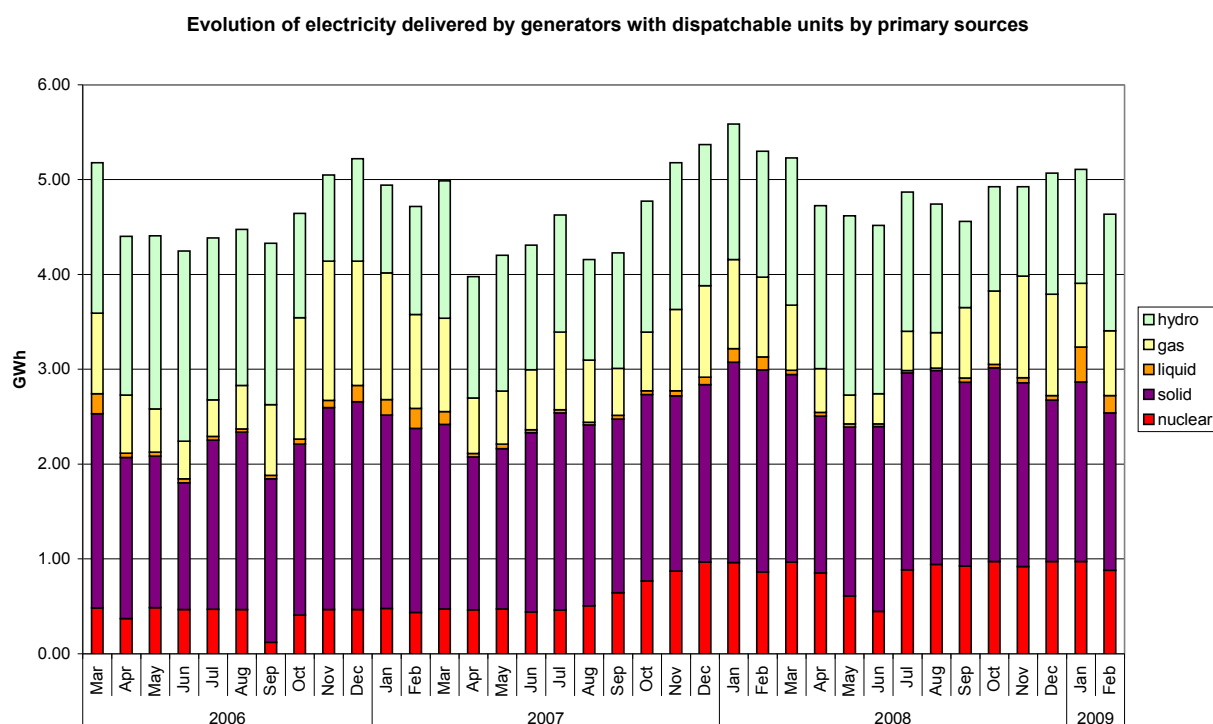
The electricity generated from hydro resources depends on and at the same time influences the energy stored in the main water reservoirs. The following graph presents the evolution of daily amounts of energy storage in February 2009 compared to daily values in 2007 and 2008 and to minimum, maximum and 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 March 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 February 2009, compared with data for similar month of 2008:

No.	Indicator	MU	February 2008	February 2009	%	Jan-Feb 2008	Jan-Feb 2009	%
0	1	2	3	4	$5=4/3*100$	6	7	$8=7/6*100$
1	Generated electricity	TWh	5.78*	5.06	87.44	11.92*	10.65	89.34
2	Delivered electricity	TWh	5.30*	4.63	87.48	10.88*	9.74	89.51
3	Import	TWh	0.07	0.09	133.39	0.16	0.23	148.95
4	Export	TWh	0.64	0.47	72.65	1.23	0.99	80.41
5	Internal consumption	TWh	4.72*	4.25	90.14	9.80*	8.98	91.60
6	Consumption of household consumers on the regulated market	TWh	0.89*	0.97	108.99	1.82*	1.97	108.24
7	Consumption of non-households consumption	TWh	3.03	2.51	82.84	6.11	5.09	83.31
7.1	<i>on the regulated market</i>	TWh	1.17*	1.07	91.45	2.38*	2.20	92.44
7.2	<i>on the competitive market</i>	TWh	1.86	1.44	77.42	3.73	2.89	77.48
8	Transmission – Injection component	TWh	5.22	4.56	87.36	10.76	9.65	89.69
9	Transmission – Extraction component	TWh	5.28	4.65	87.99	10.86	9.80	90.23
10	System services	TWh	5.28	4.65	87.99	10.86	9.80	90.23
11	Actual transmission grid losses	TWh	0.07	0.08	107.15	0.18	0.17	95.95

12	Heat generated for delivery	Tcal	2644.11*	2407.03	91.03	5969.10*	5320.72	89.14
13	Heat in co-generation	Tcal	2166.05*	2163.94	99.90	4723.40*	4629.54	98.01

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 – February 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 February 2009 compared to the volumes of the month before and February 2008:

TRANSACTIONS ON THE WHOLESALE MARKET	January 2009	February 2009	February 2008
1. NEGOTIATED CONTRACTS' MARKET			
traded volume (GWh)	5388	4968	5185
% from internal consumption (%)	114.0	116.8	109.9
average price (lei/MWh)	171.37	170.36	148.87
1.1. Sales on regulated contracts			
traded volume (GWh)	2976	2627	2497
average price (lei/MWh)	177.68	178.29	157.73
1.2. Sales on negotiated contracts*			
traded volume (GWh)	2412	2341	2688
average price (lei/MWh)	163.59	161.46	140.63
2. EXPORT			
traded volume** (GWh)	525	467	643
% from internal consumption (%)	11.1	11.0	13.6
average price (lei/MWh)	199.44	195.11	190.40***
3. CENTRALISED MARKETS OF CONTRACTS			
traded volume (GWh)	889	699	856
% from internal consumption (%)	18.8	16.4	18.1
average price (lei/MWh)	195.33	195.16	174.23
4. DAY AHEAD MARKET			
traded volume (GWh)	525	454	472
% from internal consumption (%)	11.2	10.7	10.0
average price (lei/MWh)	135.18	137.11	194.75

5. BALANCING MARKET			
traded volume (GWh)	324	290	287
% from internal consumption (%)	6.8	6.8	6.1
upward volume (GWh)	104	99	168
average negative imbalance price (lei/MWh)	228.78	234.21	281.33
downward volume (GWh)	219	192	120
average positive imbalance price (lei/MWh)	72.30	68.51	54.72
INTERNAL CONSUMPTION (includes distribution and transmission losses) (GWh)	4727	4254	4719

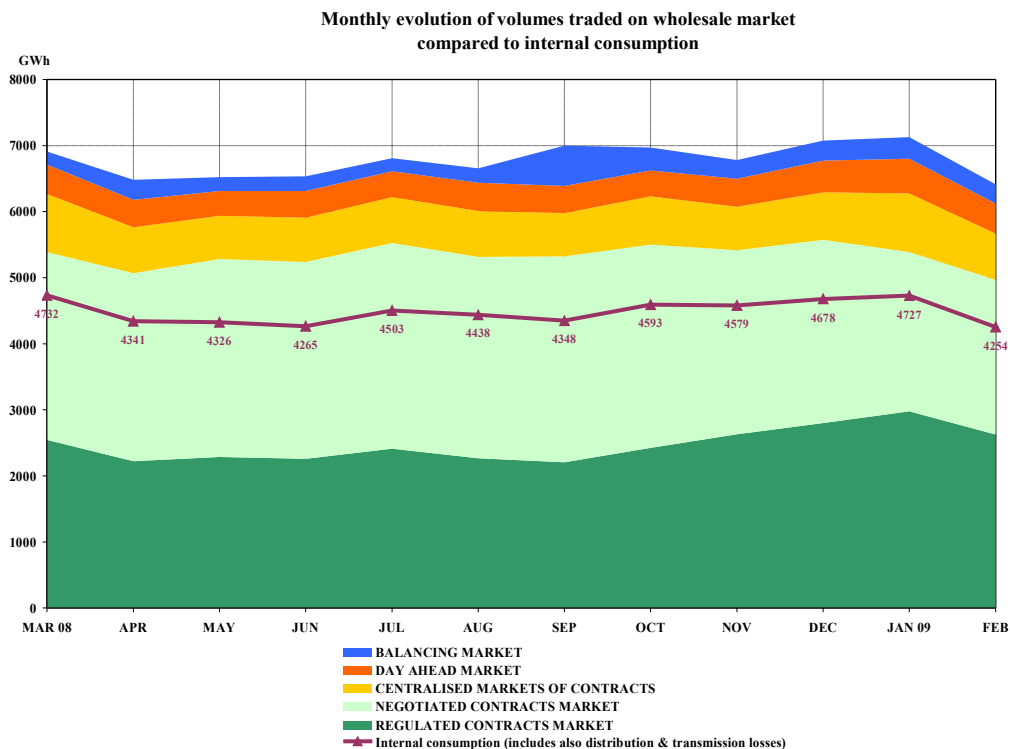
Note: * Contracts of supply to consumers and contracts of export are not included

** 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

***Price in February 2008 is calculated as an average of prices reported by the participants; all prices include injection component, most of them include extraction component, system service and market administration 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.

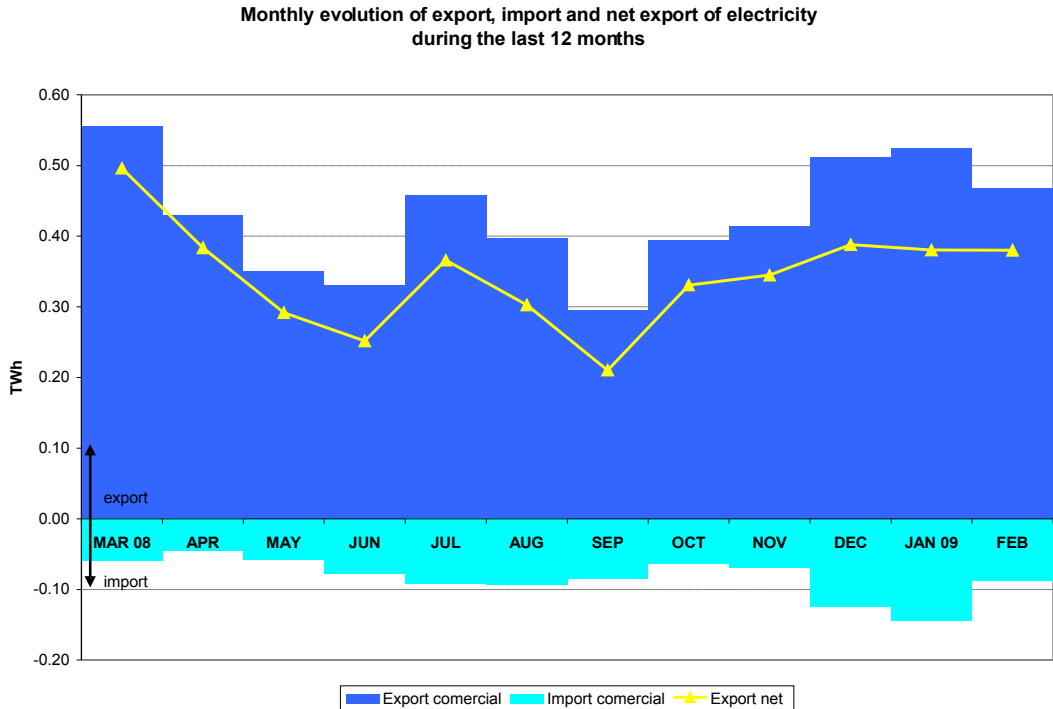
The evolution of the relation between the volumes sold on each market and the estimated internal consumption, for March 2008 – February 2009, is presented below:



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

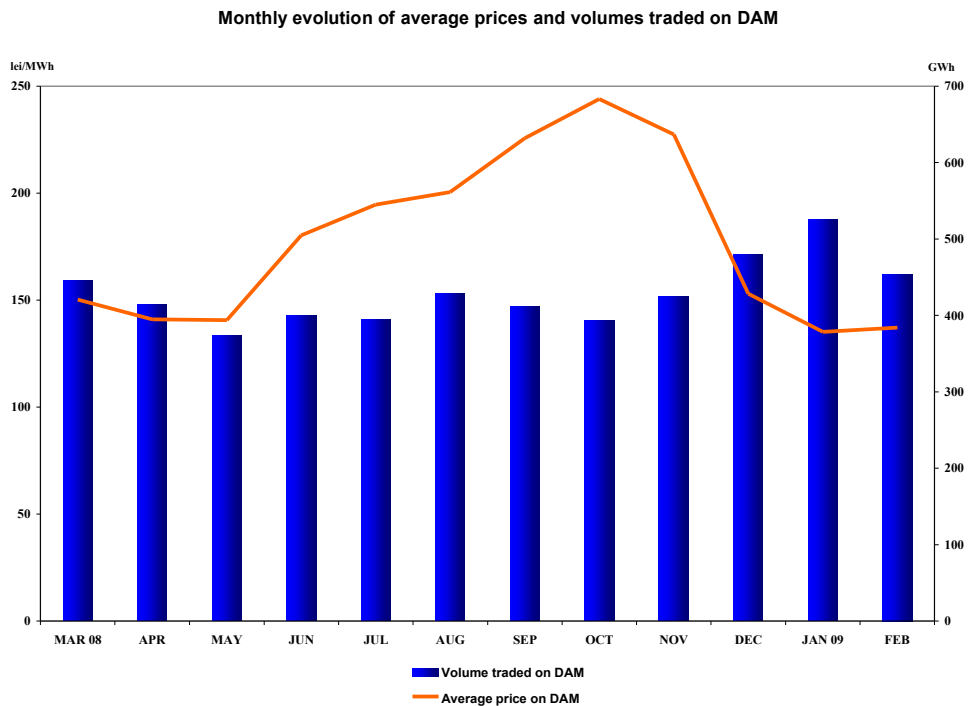
Note: In the above graph, the volumes traded on negotiated contracts' market do not include the export trades

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 12 months:



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

The following graph presents the volumes and the monthly average prices on DAM for March 2008 – February 2009.



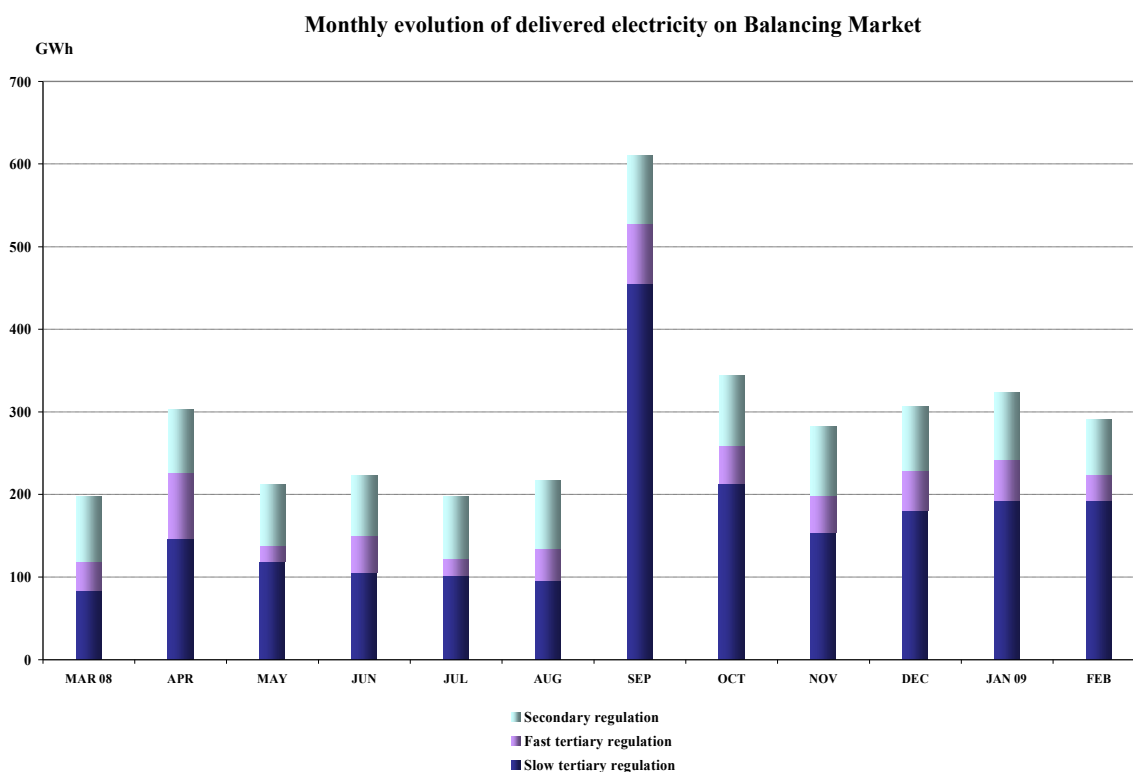
Source: Monthly reports of SC Opcom SA and CN Traselectrica SA – processed by MG

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 February 2009 is presented in the following table:

February 2009	Dispatch order (GWh)	Delivered electricity (GWh)	Deviation (%)
Secondary regulation	67	67	0
<i>upward</i>	21	21	0
<i>downward</i>	46	46	0
Fast tertiary regulation	38	31	19
<i>upward</i>	9	8	7
<i>downward</i>	29	23	22
Slow tertiary regulation	216	192	11
<i>upward</i>	74	69	6
<i>downward</i>	142	123	13
TOTAL	321	290	9
<i>upward</i>	104	99	5
<i>downward</i>	217	192	12
INTERNAL CONSUMPTION		4254	
<i>% share of traded volumes from internal consumption</i>		6.8%	

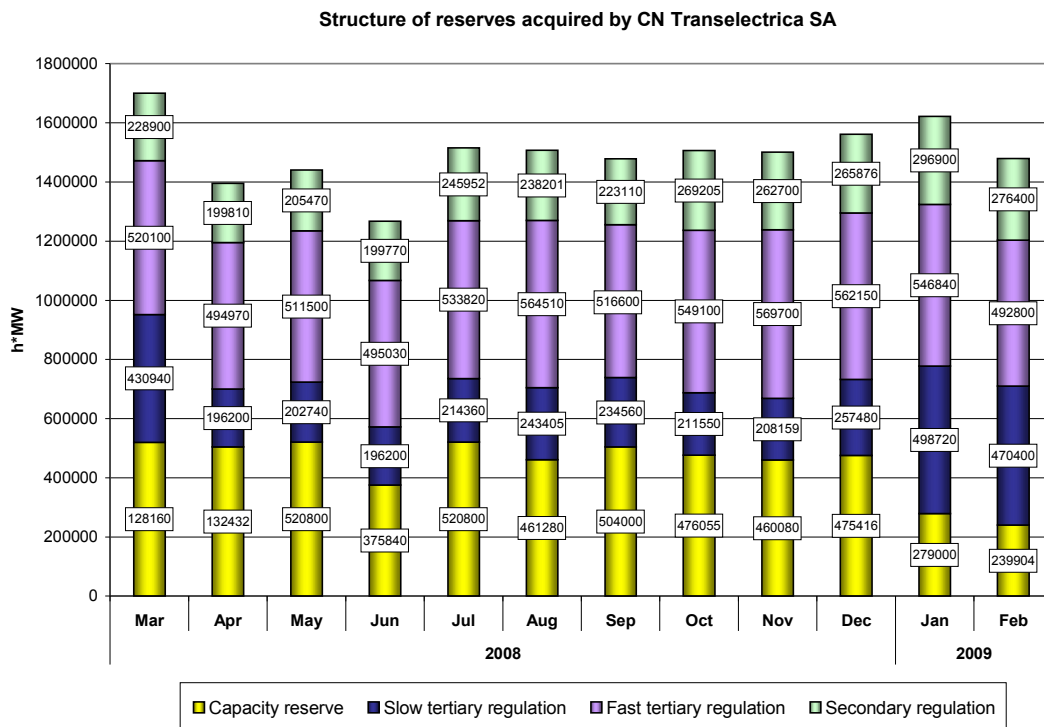
Source: Monthly reports of CN Traselectrica SA – processed by MG

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



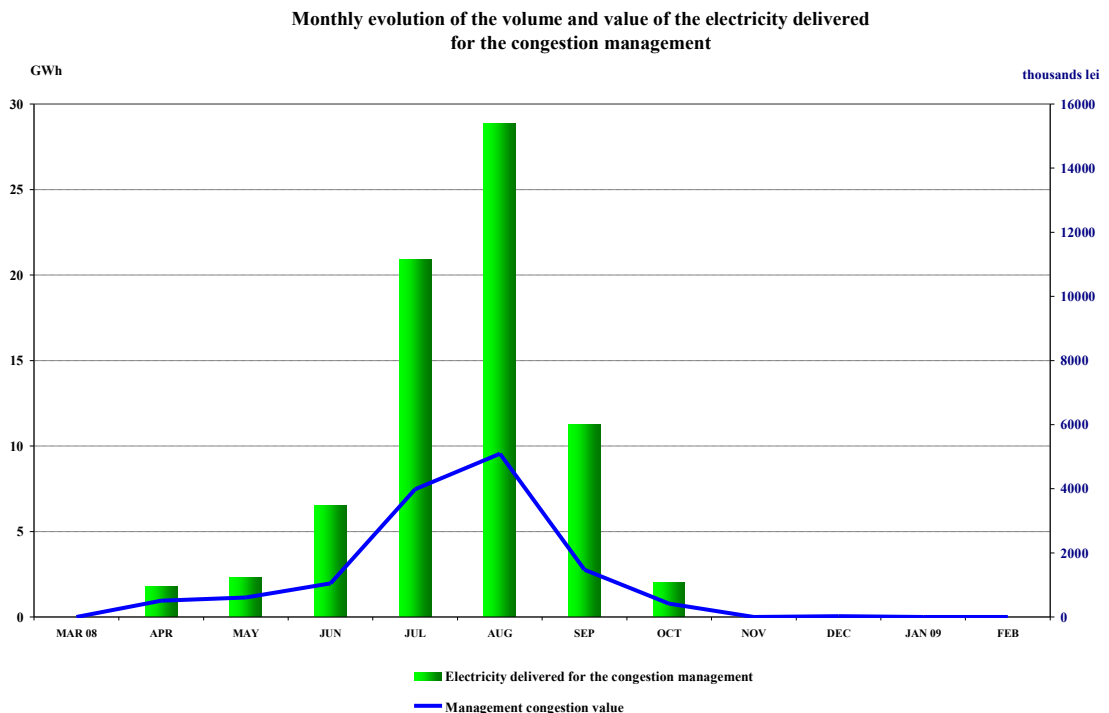
Source: Monthly reports of CN Traselectrica SA – processed by MG

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 Transelectrica SA during March 2008 – February 2009.



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

The following graph presents the last 12-months evolution of electricity traded by CN Transelectrica 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 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 February 2009 compared to January 2008 and February 2008 was the following:

- GWh -

Transaction type	January 2009	February 2009	February 2008
0	1	2	3
Regulated to incumbents, thermal generators	1547.00	1373.13	1230.23
Regulated to incumbents, hydro generator	209.53	147.13	180.26
Regulated to incumbents, nuclear generator	502.50	453.85	472.82
Regulated for distribution losses, thermal generators	408.28	363.01	314.33
Regulated for distribution losses, hydro generator	46.72	44.01	51.00
Regulated for distribution losses, nuclear generator	148.16	133.82	138.40
Regulated for transmission losses, thermal generator	80.59	64.47	70.47
Regulated, to other generators (with return of obligation within a year)	33.37	47.51	39.97
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	97.25	93.32	105.36
Negotiated, to suppliers	902.44	927.70	1255.36
Contracts concluded on centralized markets (CMBC, CMBC-NC, RCE)	885.11	695.89	849.89
Supply to consumers (regulated and competitive)	211.93	210.80	160.20
Export	107.17	116.97	130.44
DAM	179.53	163,5	348.75
Total	5359.58	4835.46	5347.47

Source: Monthly reports of generators – processed by MG

Suppliers

In February 2009, 64 companies having as main activity the supply of electricity concluded transactions on the electricity market; from these, 22 suppliers traded electricity exclusively on the wholesale market and 42 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 February 2009 compared to February 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	February 2008	February 2009
Acquisitions		
Import	12.93	2.31
Negotiated contracts with suppliers	576.16	579.74
Negotiated contracts with generators	265.48	154.72
Contracts concluded on centralized markets	217.48	327.62

DAM	29.99	54.74
Sales		
Export	475.83	303.53
Negotiated contracts with suppliers	584.55	642.28
Negotiated contracts with generators	-	41.66
Contracts concluded on centralized markets	-	-
DAM	41.65	127.96

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 February 2009 and February 2008.

- GWh -

Acquisition structure of suppliers providing electricity to final consumers (the incumbent suppliers are not included)	February 2008	February 2009
Import	52.26	48.01
Negotiated contracts with suppliers	523.26	478.65
Negotiated contracts with generators	989.99	773.20
Contracts concluded on centralized markets	500.49	358.22
DAM	109.67	119.90

Incumbent suppliers

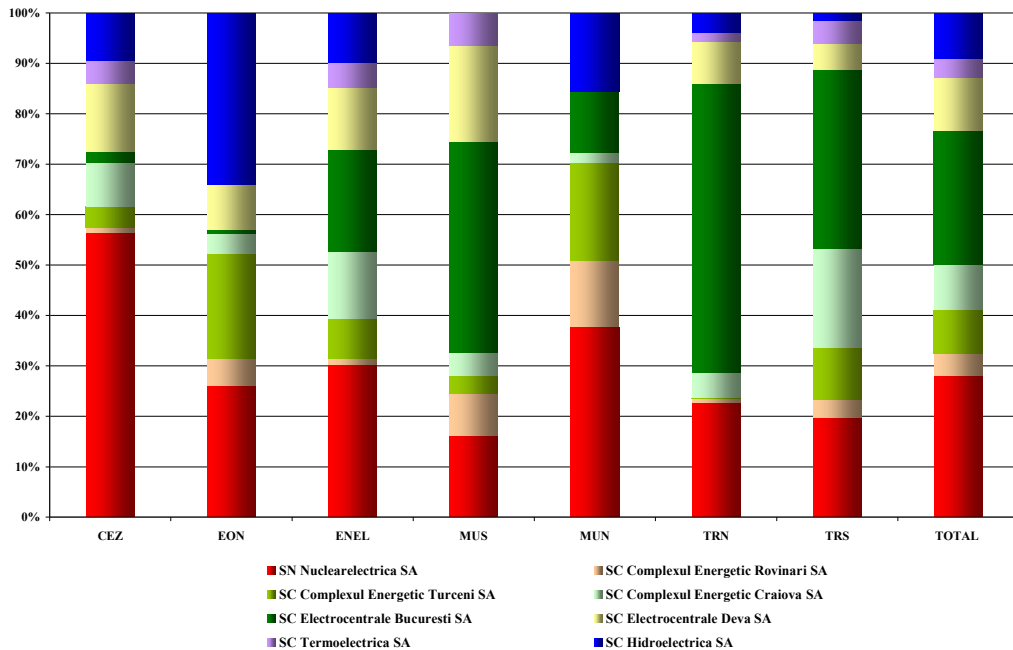
Electricity acquisition structure of incumbent suppliers (before the delivery day), for supplying the regulated market consumers, is presented in the table below, for February 2009 compared to the situation of February 2008:

- GWh -

Acquisition structure of incumbent suppliers for regulated REM component	February 2008	February 2009
Regulated contracts	1928.66	2021.61
Negotiated contracts	5.46	12.27
Contracts concluded on centralized	3.69	-
DAM	145.58	96.18

The structure of the electricity purchased by the incumbent suppliers from the main generators on regulated contracts is presented in the following graph for February 2009:

Electricity acquisition from main generators, on regulated contracts, of incumbent suppliers for delivering electricity to final consumers on regulated market
February 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 February 2009 compared to February 2008:

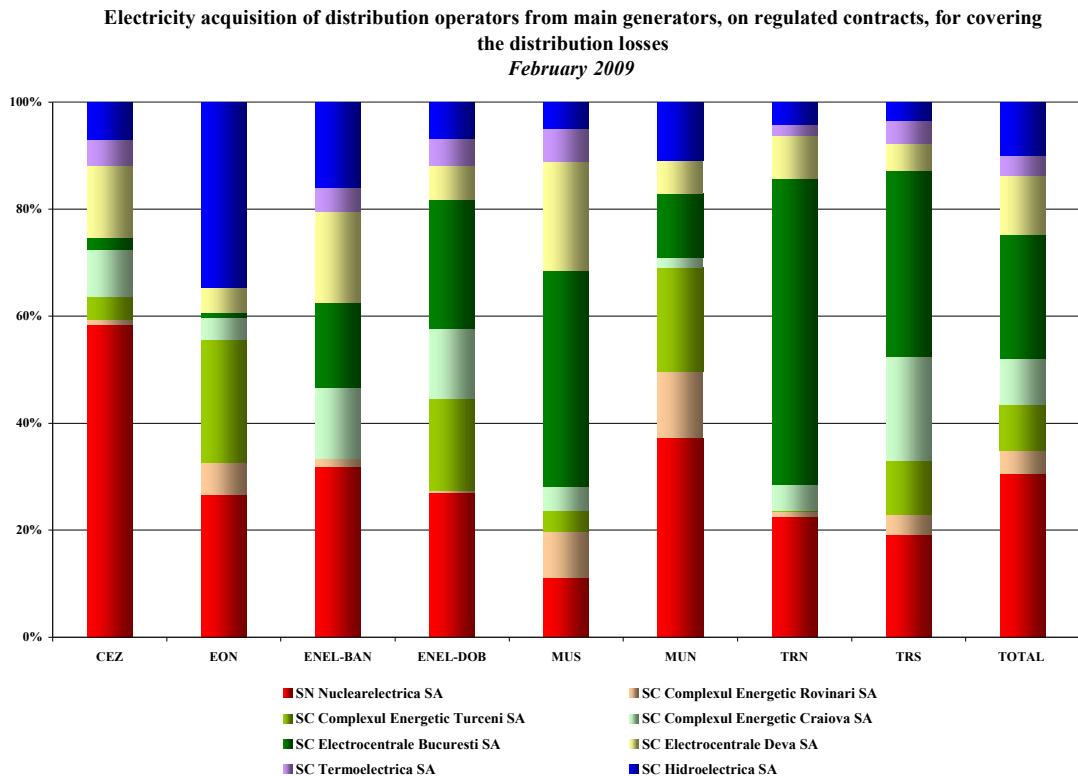
Acquisition structure of incumbent suppliers for competitive REM component	- GWh -	
	February 2008	February 2009
Import	-	36.63
Negotiated contracts with suppliers	195.31	197.76
Negotiated contracts with generators	-	-
Contracts concluded on centralized markets	127.59	13.40
DAM	65.29	72.14

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 February 2009 compared to February 2008:

Acquisition structure	- GWh -	
	February 2008	February 2009
Regulated contracts	504.62	540.83
Negotiated contracts	2.24	0.02
Contracts concluded on	-	-
DAM	104.25	97.22

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 February 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

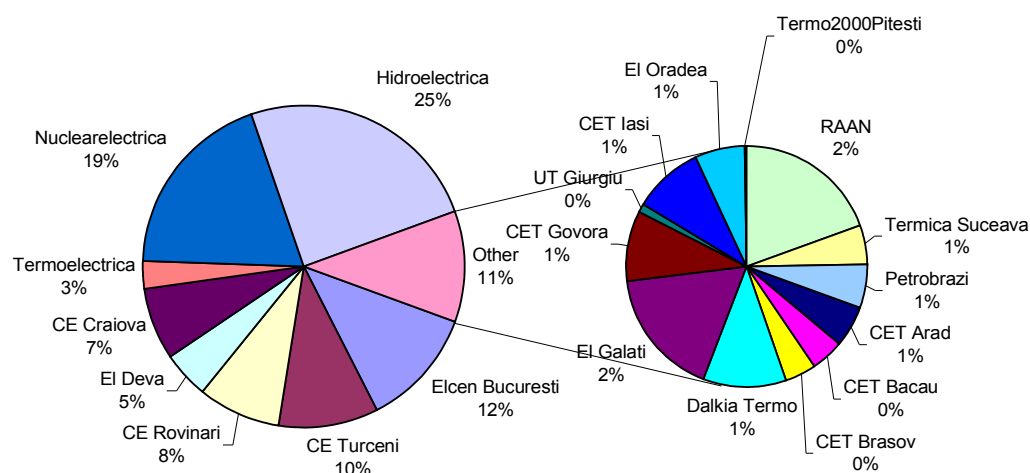
The market structure regarding the electricity generation offers an initial basis for analyzing the possible competitiveness level of the electricity market.

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

Concentration indicators - February 2009 -	C1 (%)	C3 (%)	HHI
Value	26	57	1447

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

**Market shares of dispatchable generators by delivered electricity
January-February 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 February 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 - February 2009 -	Regulation					
	Secondary		Fast tertiary		Slow tertiary	
	upward	downward	upward	downward	upward	downward
C1 (%)	67	64	66	48	63	33
C3 (%)	95	94	83	88	87	76
HHI	4951	4557	4615	3186	4380	2240

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 February 2009:

Concentration indicators on ASM - February 2009 -		Secondary reserve	Fast tertiary reserve	Slow tertiary reserve	Capacity reserve
regulated component	contracted quantity (h*MW)	276400	492800	235200	0
	C1 (%)	63.9	79.4	85.7	0
	C3 (%)	89.2	90.0	100	0
competitive component	contracted quantity (h*MW)	0	0	235200	239904
	C1 (%)	0	0	54.3	44.8
	C3 (%)	0	0	100	100
	HHI	0	0	5037	3533

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

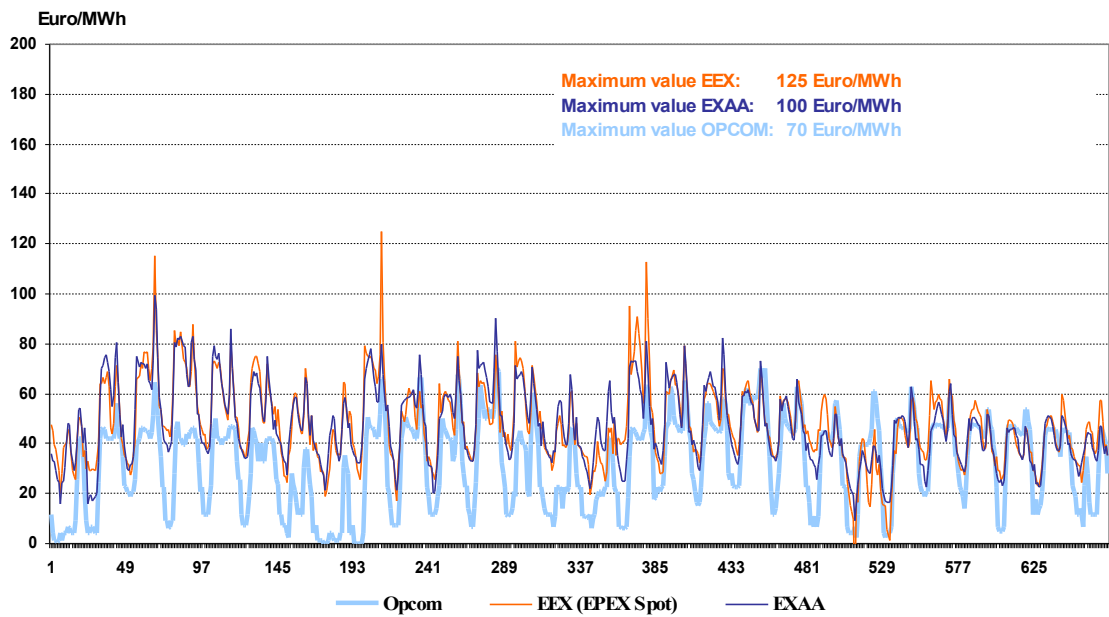
Concentration indicators on DAM - February 2009 -	C1 (%)	C3 (%)	HHI
Buying transactions	18	40	816
Selling transactions	10	26	465

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 February 2009 is presented in the following graphs, along with the prices on EEX and EXXA.

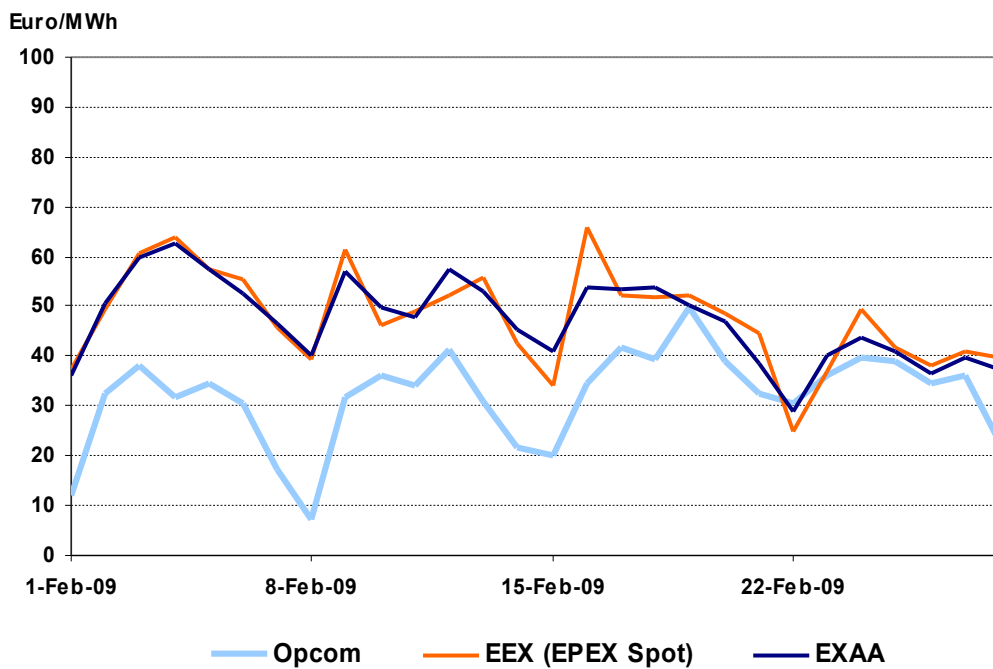
For comparison with prices on the European power exchanges, the spot price on SC Opcom SA is denominated in EUR, taking into consideration the daily exchange rates Euro/leu communicated by the National Bank of Romania.

HOURLY SPOT PRICES
February 2009



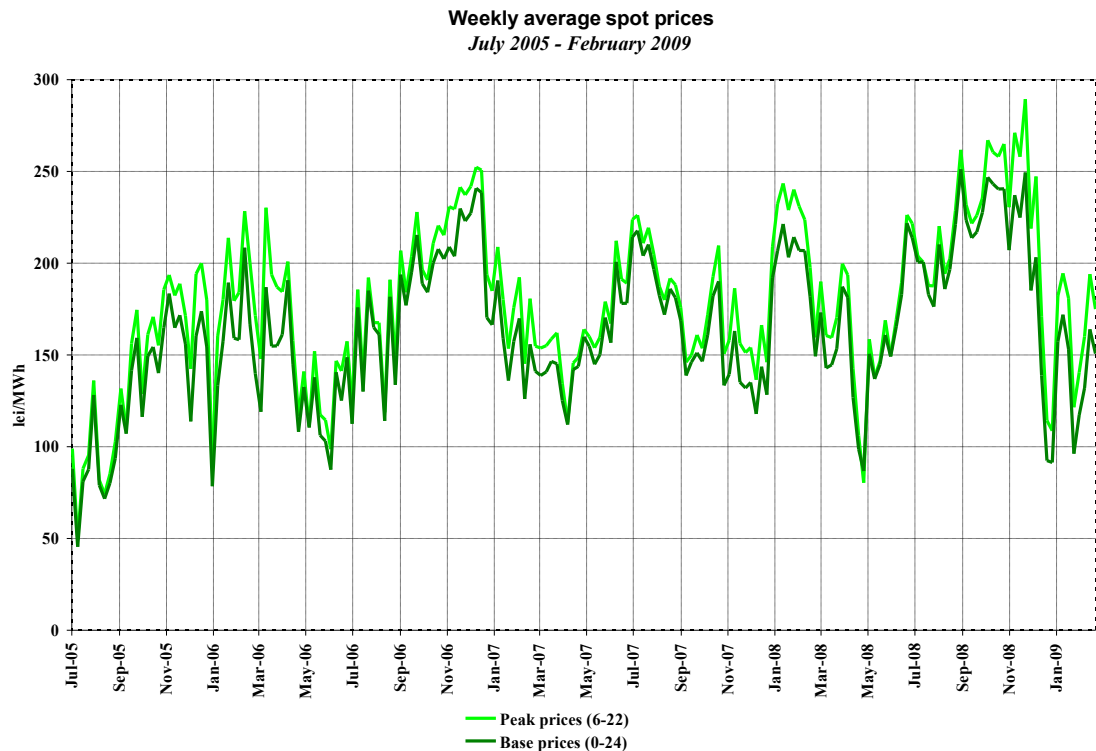
Source: Daily reports of SC Opcom SA and published data of EXAA and EEX
– processed by MG

DAILY AVERAGE SPOT PRICES
February 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:

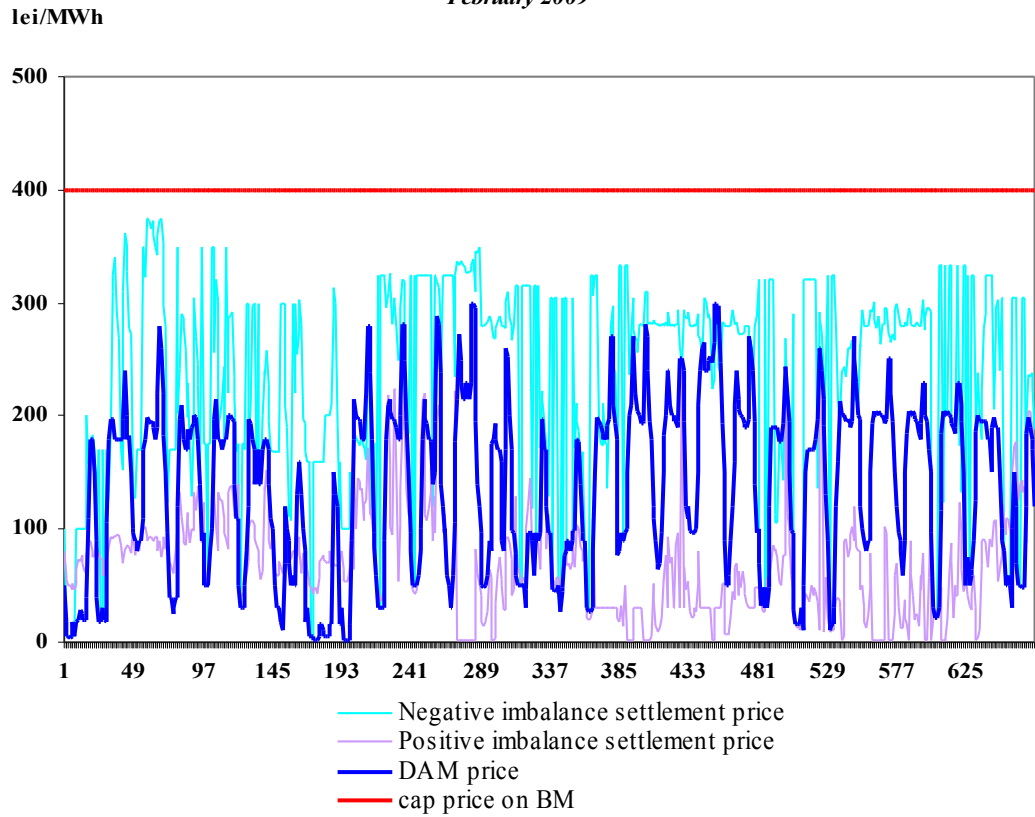


Source: Daily reports of SC Opcom SA – processed by MG

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.

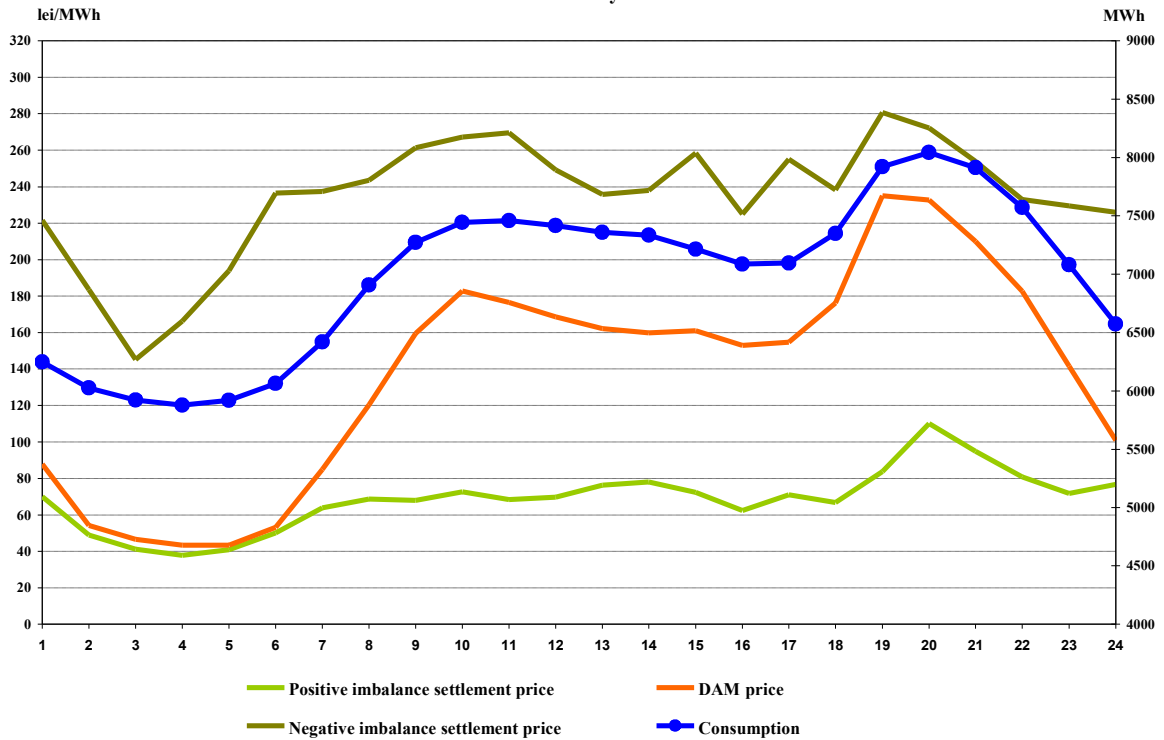
The settlement prices (MCP on DAM, negative imbalance settlement price and positive imbalance settlement price) are represented on the same graph, showing the two markets correlation degree. In the first graph the prices are expressed in hourly values, in the second graph in hourly average values compared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

Hourly settlement prices February 2009



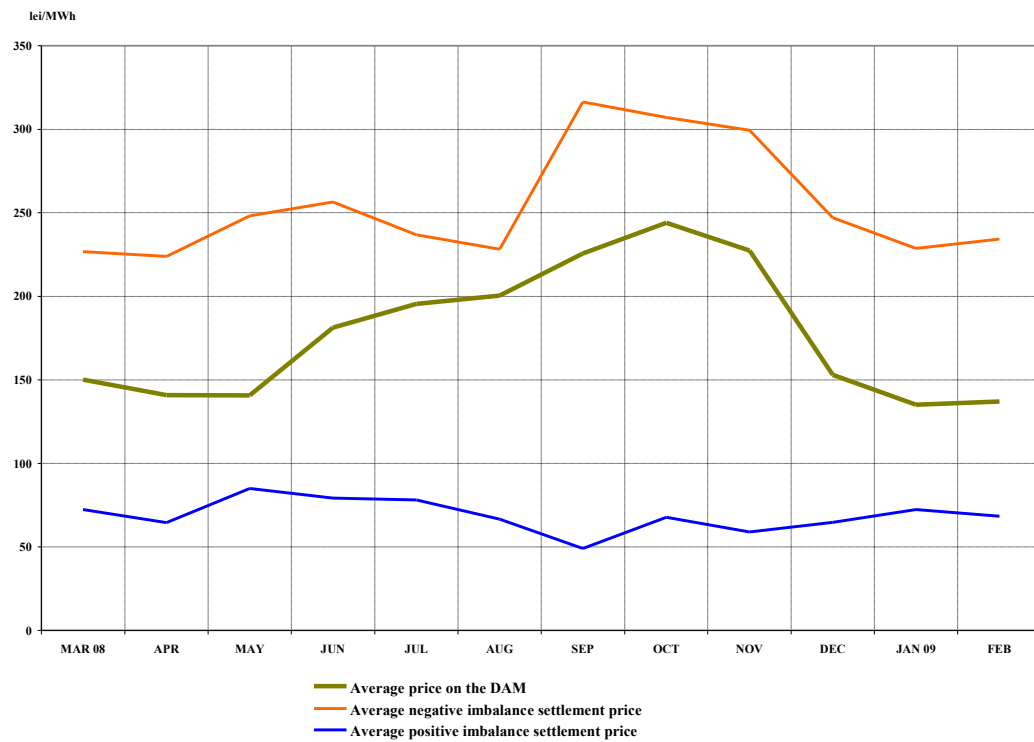
Source: Daily/monthly reports of SC Opcom SA – processed by MG

Hourly average settlement prices and internal consumption - February 2009 -



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

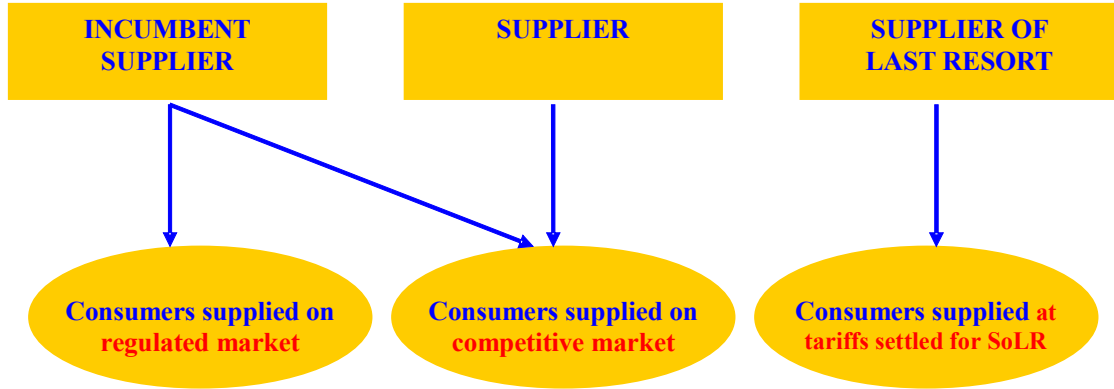
Monthly average prices on DAM and BM



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

III. RETAIL ELECTRICITY MARKET

1. Structure of the retail electricity market



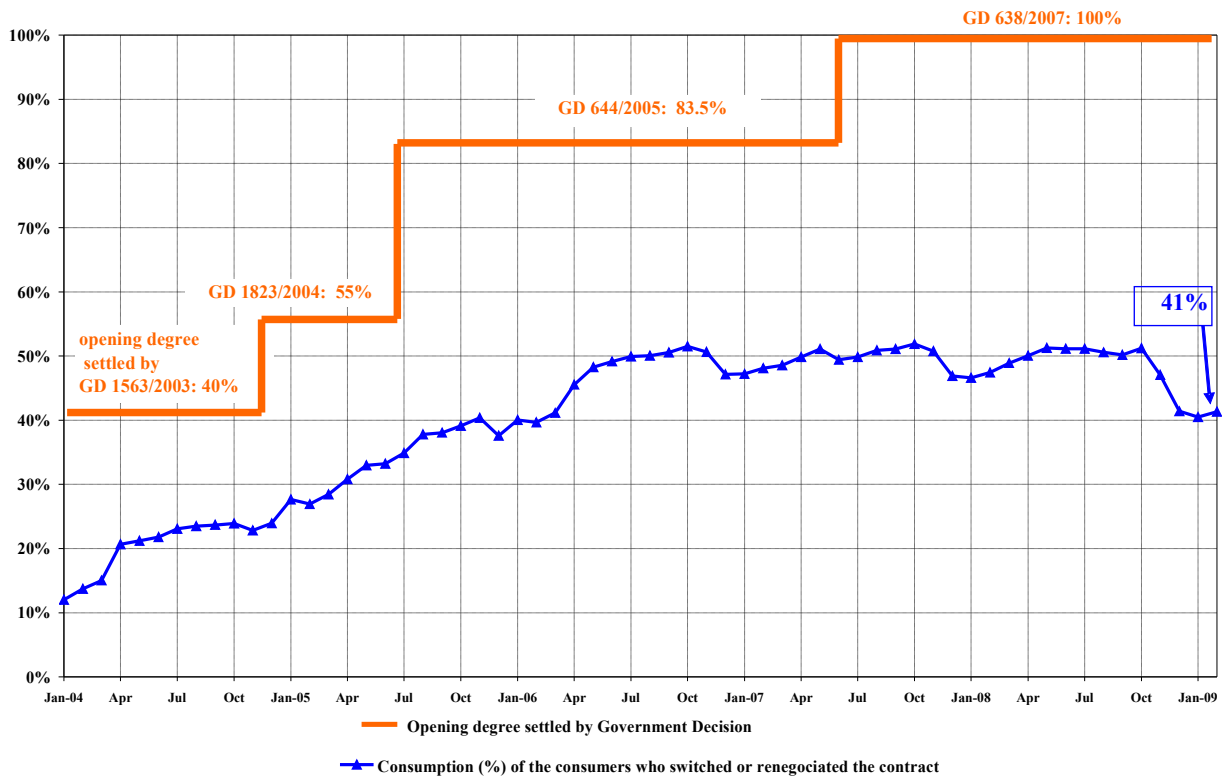
2. Steps in the opening process of the electricity market

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

Opening degree evolution for electricity market
January 2004 - February 2009



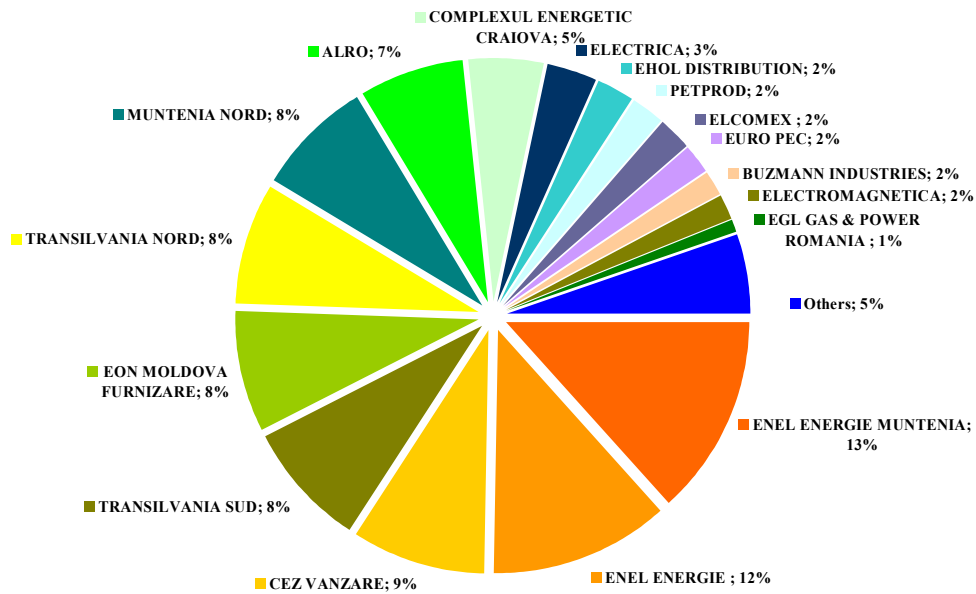
Source: Monthly reports of the final consumers' suppliers – processed by MG

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 - February 2009



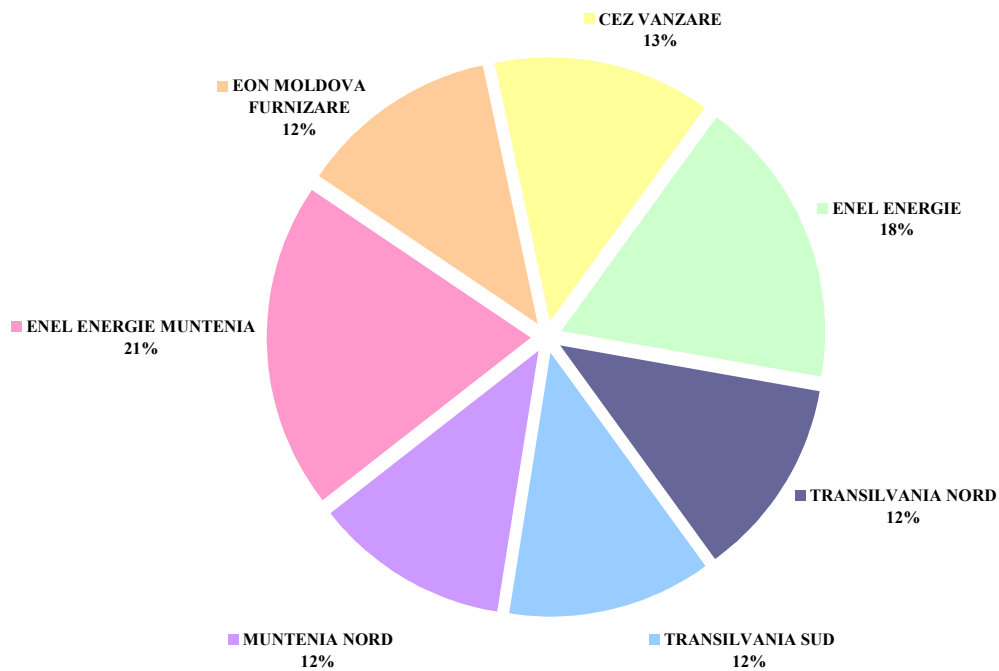
Final consumption: 7061 GWh

Category "Others" includes 29 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 - February 2009

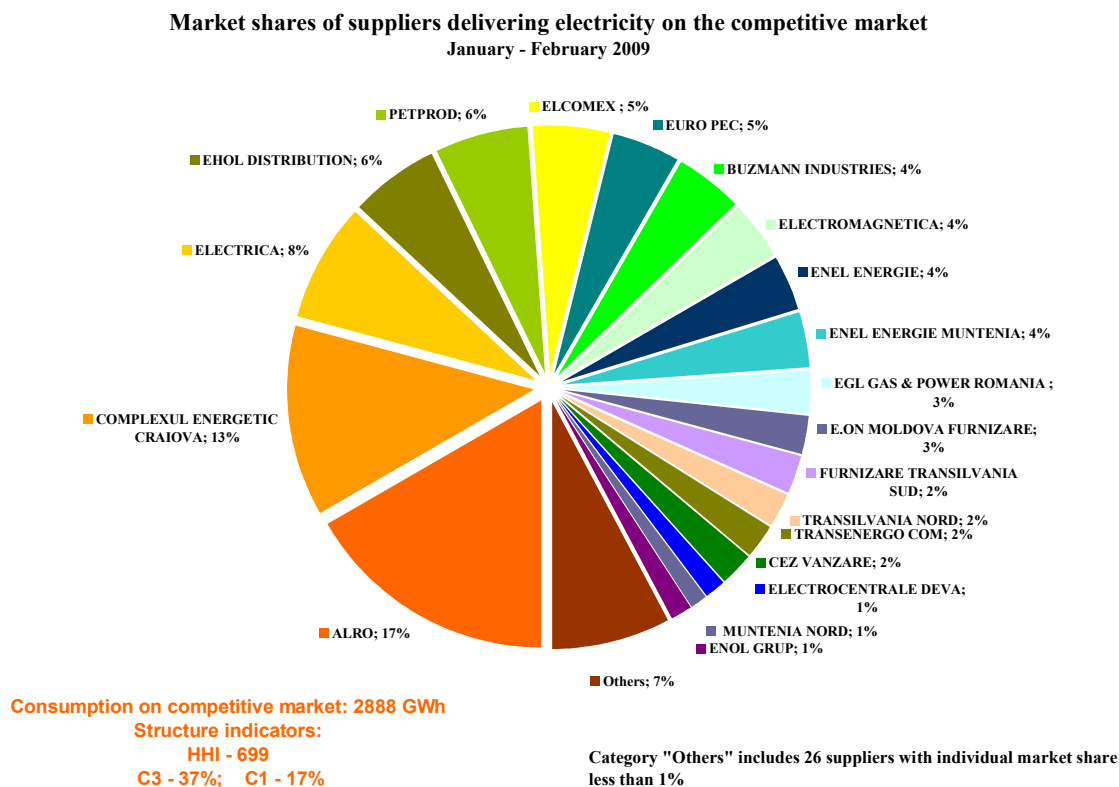


Consumption of consumers supplied at regulated tariffs: 4173 GWh

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

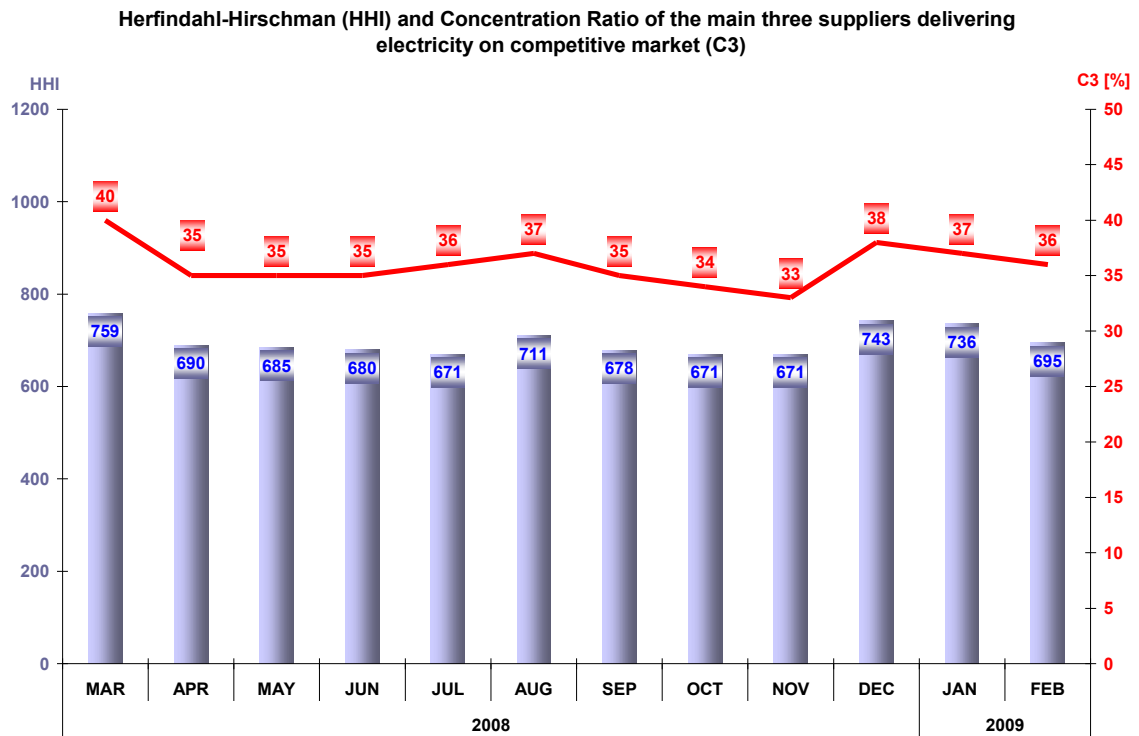
The electricity supplied to the final consumers used for calculating the market share of every supplier includes also the self-consumption of that particular supplier (e.g. consumers with supply license who buy electricity for themselves from WEM as competitive suppliers).

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 February 2009:

Number of suppliers - February 2009 -	Share of sales to final consumers from total sales transactions			
	100%	75% - 100%	50% - 75%	<50%
Competitive	8	8	6	13
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 February 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:

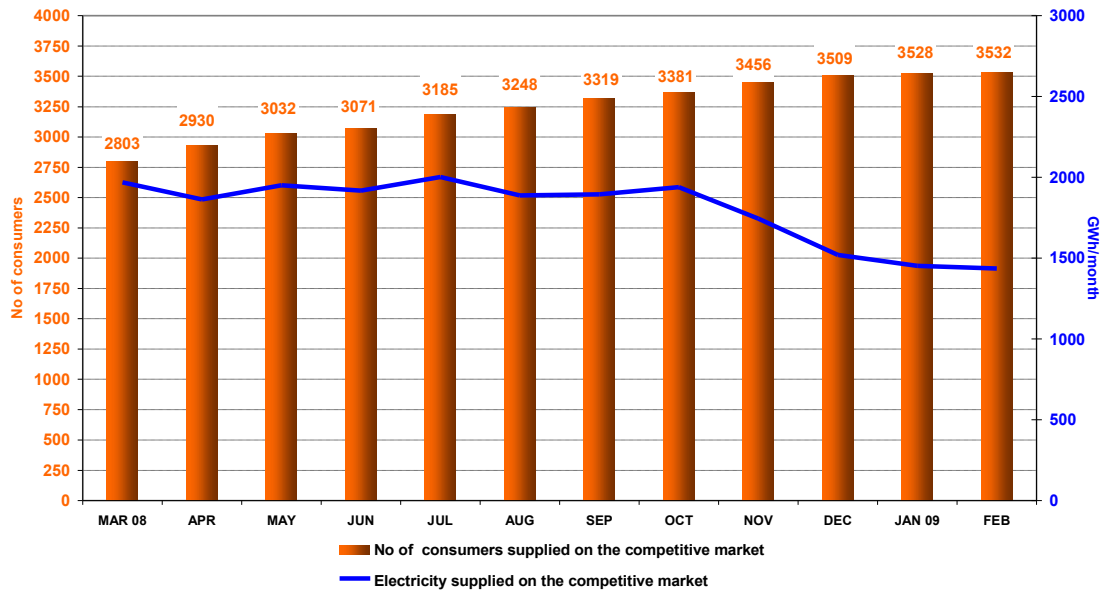
Indicators - February 2009 -	Consumer category							Total
	IA	IB	IC	ID	IE	IF	Others	
C1 (%)	30	37	20	14	17	22	30	16
C3 (%)	73	64	44	33	39	50	67	36
HHI	2023	1853	913	667	799	1187	1818	695
Consumption (GWh)	0.2	28	79	291	167	111	760	1436
No. of suppliers	9	29	35	36	22	12	11	46
Incumbent suppliers	6	7	7	7	6	3	0	7
Competitive suppliers	3	19	24	25	14	9	9	35
Generators acting as suppliers	0	3	4	4	2	0	2	4

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

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

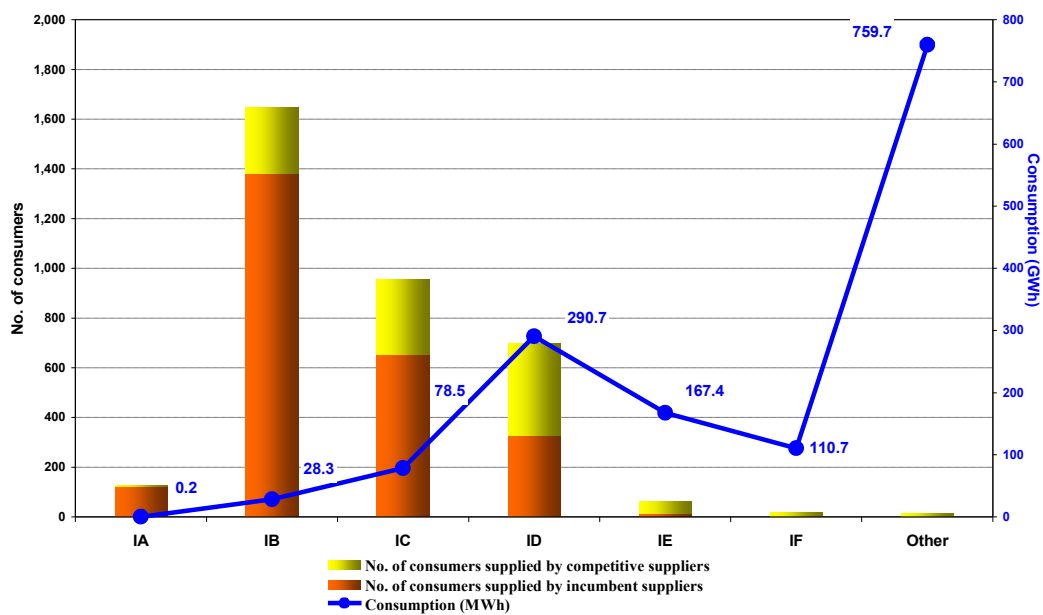
Industrial end-user	Annual electricity consumption (MWh)	
	Lowest	Highest
IA		<20
IB	20	<500
IC	500	<2000
ID	2000	<20000
IE	20000	<70000
IF	70000	<=150000
Others	>150000	

Evolution of the number of supplied consumers and delivered electricity on the competitive market



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

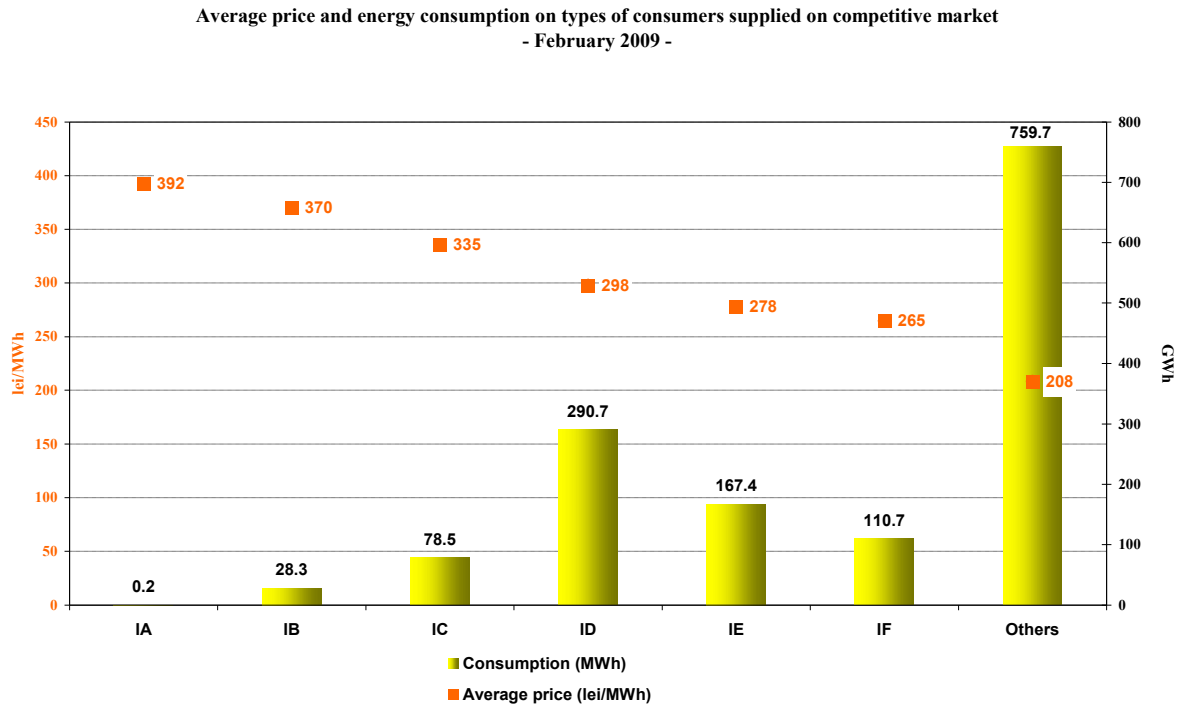
Number of consumers supplied on competitive market and the consumption of each category of consumers - February 2009 -



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.



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, imbalances, BRP aggregated taxes, metering).

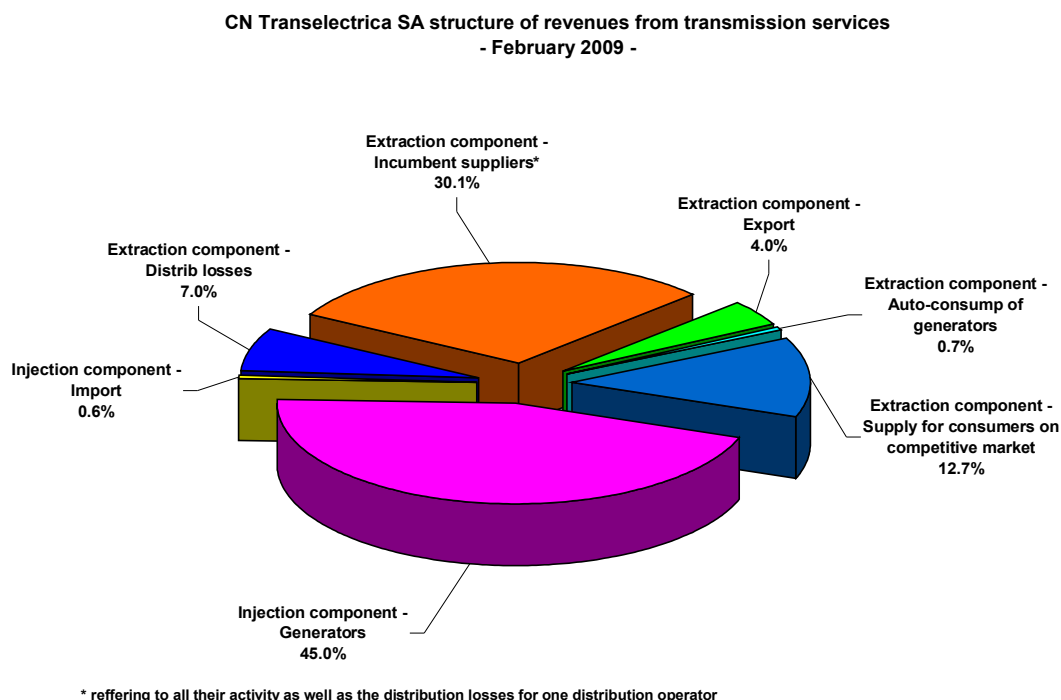
Splitting consumers into categories was based on their annual consumption forecast, according to the provisions of above mentioned Directive.

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 February 2009.

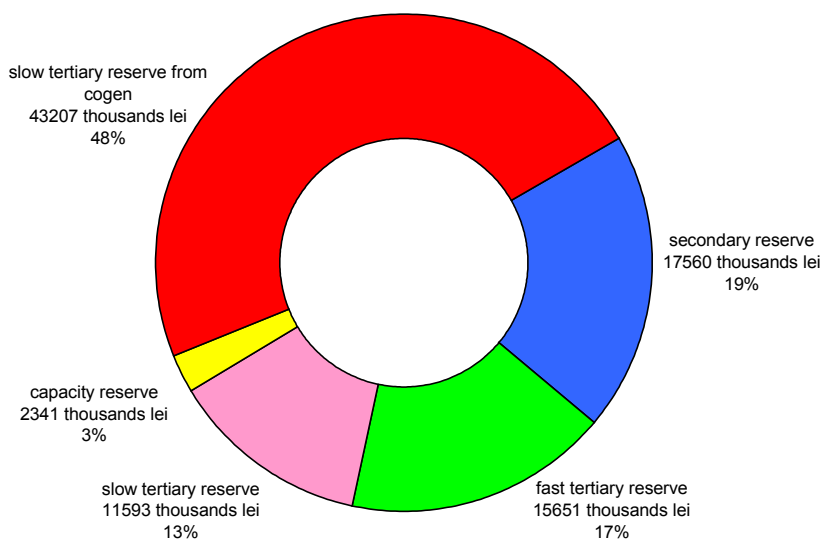


Source: Monthly reports of CN Transelectrica SA – processed by MG

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 February 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
- February 2009 -



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

V. EVOLUTION OF MARKET RULES IN FEBRUARY 2009

- No regulations concerning the functioning of the wholesale electricity market and retail electricity market were issued in February 2009.

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