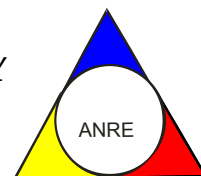




ROMANIAN ENERGY REGULATORY AUTHORITY
ELECTRICITY MARKET DEPARTMENT



REPORT ON RESULTS OF MONITORING THE
ROMANIAN ELECTRICITY MARKET
APRIL 2009

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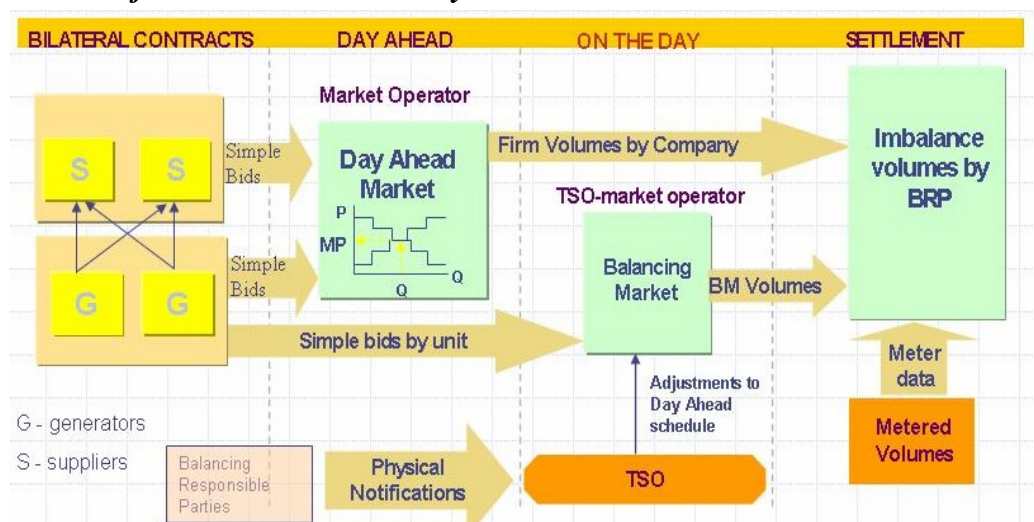
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I. MAIN EVENTS IN THE DEVELOPMENT OF THE ROMANIAN ELECTRICITY MARKET

- **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 April 2009 are presented below split into categories:

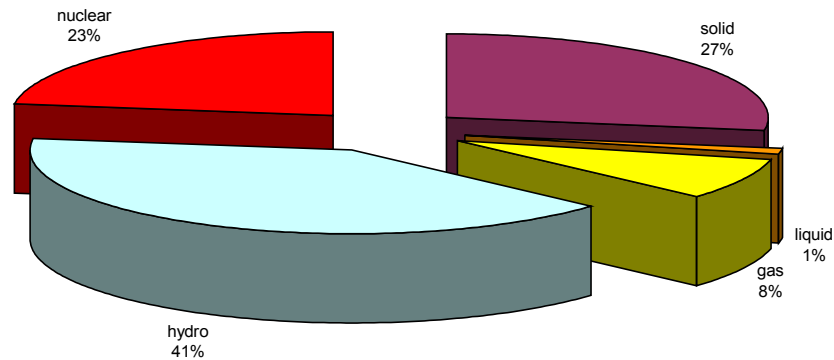
No.	Name	Comments
A	Electricity generators operating dispatching units	
1	SC CET Bacău SA	
2	SC CET Braşov SA	
3	SC CET Govora SA	
4	SC CET Iaşi SA	
5	SC CET Oradea SA	
6	SC Electrocentrale Bucureşti SA	
7	SC Electrocentrale Galaţi SA	
8	SC Dalkia Termo Prahova SRL	
9	SNP Petrom Sucursala Petrobrazi	
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 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 Merrill Lynch Commodities (Europe)
18	SC Re Energie SRL
19	SC Romelectro SA
20	SC Rudnap SRL
21	SC RBS Semptra Energy Europe Ltd
22	SC Statkraft Romania SRL
23	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 Gevco SRL
25	SC Hidroconstructia SA
26	SC ICCO Electric SRL
27	SC ICPE Electrocond Technologies SA
28	SC Interagro SA
29	SC Luxten LC SA
30	SC Petprod SRL
31	SC Renovation Trading 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

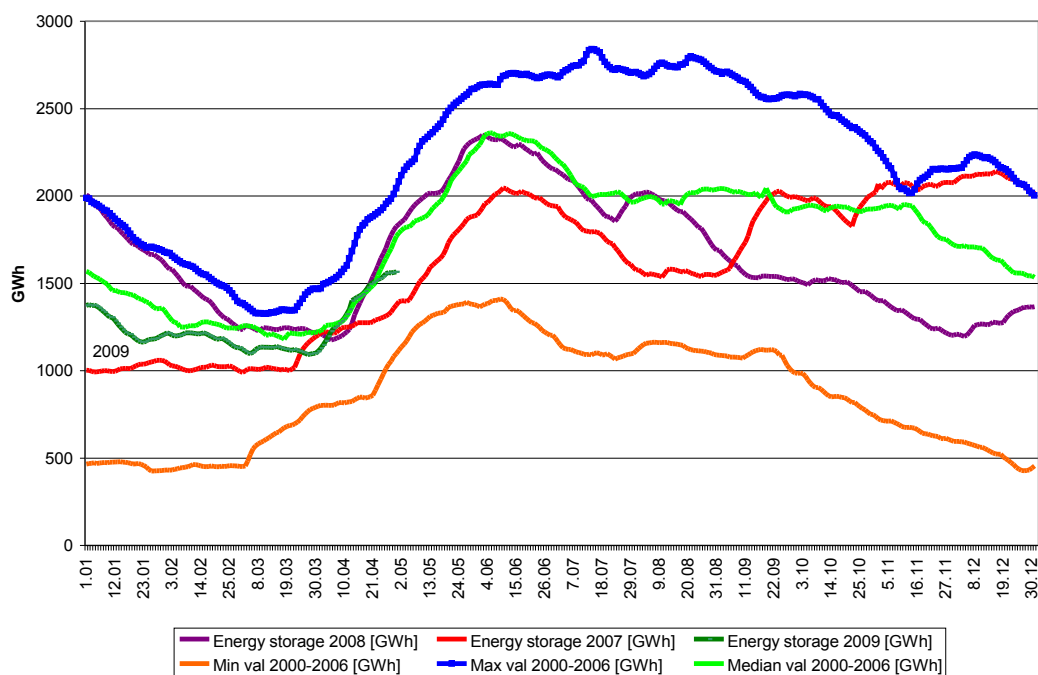
Electricity structure by primary sources
(delivered by generators with dispatchable units)
April 2009



Source: Monthly reports of generators – processed by MG

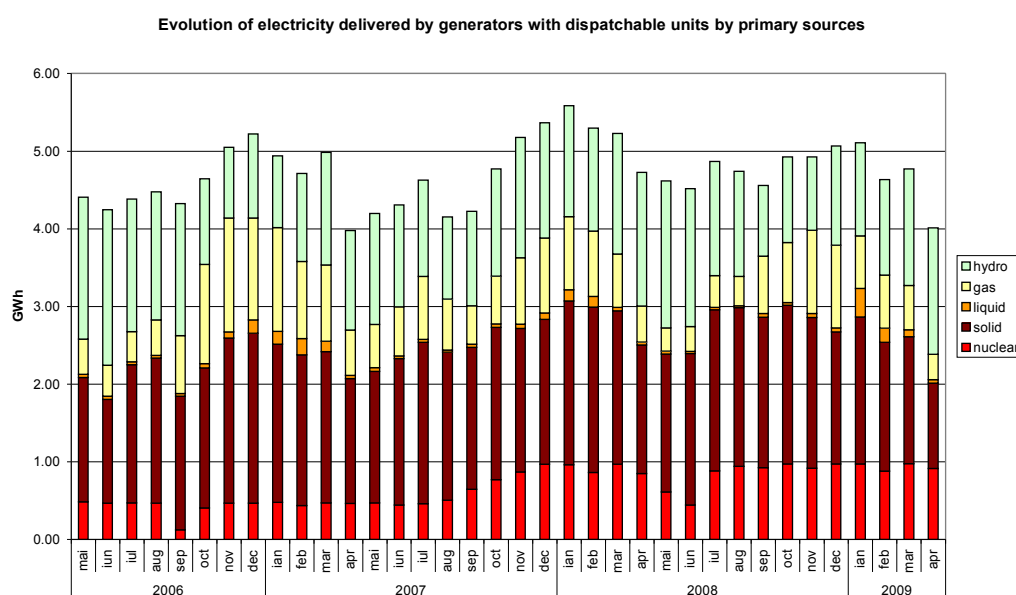
The electricity generated from hydro resources depends on and at the same time influences the energy stored in the main water reservoirs. The following graph presents the evolution of daily amounts of energy storage in April 2009 compared to daily values in 2007 and 2008 and to minimum, maximum and median 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 May 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 April 2009 and for the first 4 months of 2009, compared to data for similar periods of 2008:

No.	Indicator	MU	April 2008	April 2009	%	Jan-Apr 2008	Jan-Apr 2009	%
0	1	2	3	4	$5=4/3*100$	6	7	$8=7/6*100$
1	Generated electricity	TWh	5.11	4.32	84.42	22.72*	20.07	88.33
2	Delivered electricity	TWh	4.72	4.01	84.92	20.83*	18.52	88.91
3	Import	TWh	0.05	0.03	60.36	0.26	0.35	133.31
4	Export	TWh	0.43	0.28	64.29	2.22	1.72	77.38
5	Internal consumption	TWh	4.34	3.76	86.70	18.88*	17.15	90.87
6	Consumption of household consumers on the regulated market	TWh	0.83	0.88	106.02	3.57	3.88	108.68
7	Consumption of non-households consumption	TWh	2.89	2.32	80.28	12.07	10.04	83.18
7.1	on the regulated market	TWh	1.03	0.94	91.26	4.51*	4.27	94.68
7.2	on the competitive market	TWh	1.86	1.38	74.19	7.56	5.77	76.32
8	Transmission – Injection component	TWh	4.61	3.86	83.75	20.50	18.22	88.87
9	Transmission – Extraction component	TWh	4.69	3.97	84.62	20.76	18.56	89.40
10	System services	TWh	4.69	3.97	84.62	20.76	18.56	89.40
11	Actual transmission grid losses	TWh	0.08	0.07	83.60	0.34	0.32	93.56
12	Heat generated for delivery	Tcal	1279.84	1123.89	87.82	9367.66*	8736.16	93.26
13	Heat in co-generation	Tcal	1089.25	893.61	82.04	7597.71*	7384.18	97.19

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

TRANSACTIONS ON THE WHOLESALE MARKET	March 2009	April 2009	April 2008
1. BILATERAL CONTRACTS' MARKET			
traded volume (GWh)	5396	4914	5068
average price (lei/MWh)	163.38	157.00	139.14
1.1. Sales on regulated contracts			
traded volume (GWh)	2713	2239	2220
% from internal consumption (%)	61.5	59.5	51.1
average price (lei/MWh)	167.18	157.30	138.52
1.2. Sales on negotiated contracts*			
traded volume (GWh)	2683	2675	2848
% from internal consumption (%)	60.8	71.1	65.6
average price (lei/MWh)	159.53	156.74	139.63
2. EXPORT			
traded volume** (GWh)	449	276	429
% from internal consumption (%)	10.2	7.3	99
average price (lei/MWh)	172.32	162.49	180.76***
3. CENTRALISED MARKETS OF CONTRACTS			
traded volume (GWh)	616	501	697
% from internal consumption (%)	14.0	13.3	16.0
average price (lei/MWh)	194.87	193.27	175.82
4. DAY AHEAD MARKET			
traded volume (GWh)	594	501	414
% from internal consumption (%)	13.5	13.3	9.5
average price (lei/MWh)	128.44	97.77	140.95
5. BALANCING MARKET			
traded volume (GWh)	271	305	303
% from internal consumption (%)	6.1	8.1	7.0
upward volume (GWh)	56	72	125
average negative imbalance price(lei/MWh)	225.28	229.43	224.03
downward volume (GWh)	215	232	178
average positive imbalance price (lei/MWh)	86.26	93.20	64.48
INTERNAL CONSUMPTION (includes distribution and transmission losses) (GWh)	4410	3764	4341

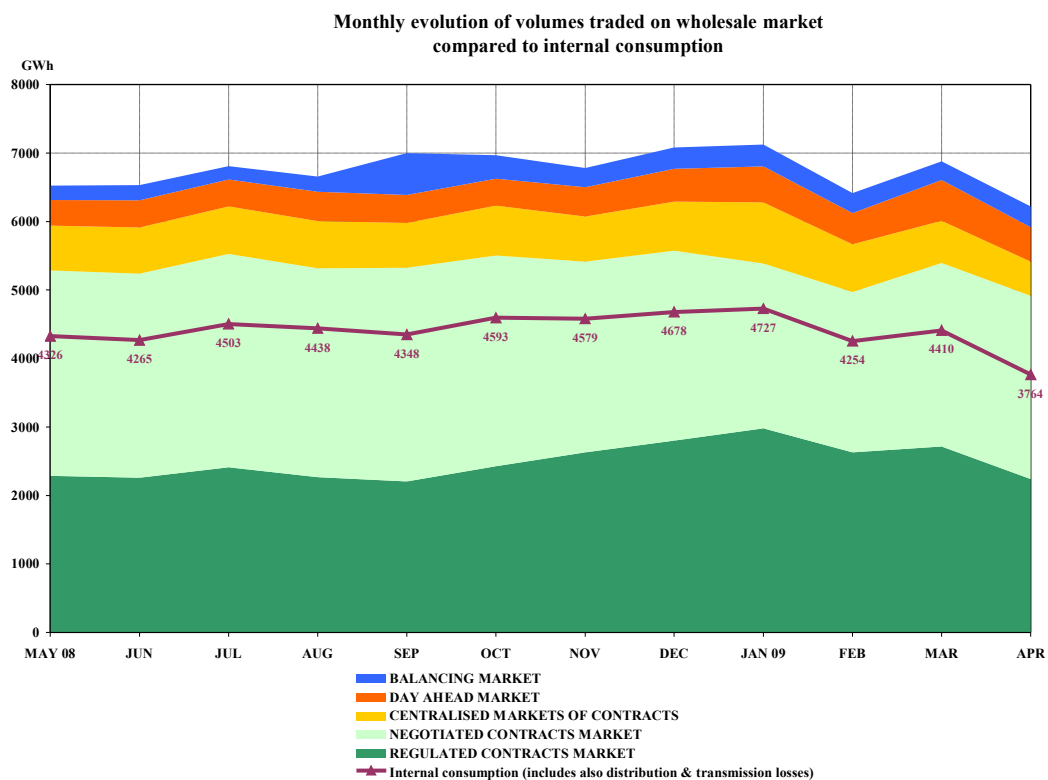
Note: * Contracts of supply to consumers and contracts of export are not included

** 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 April 2008 is calculated as an 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.

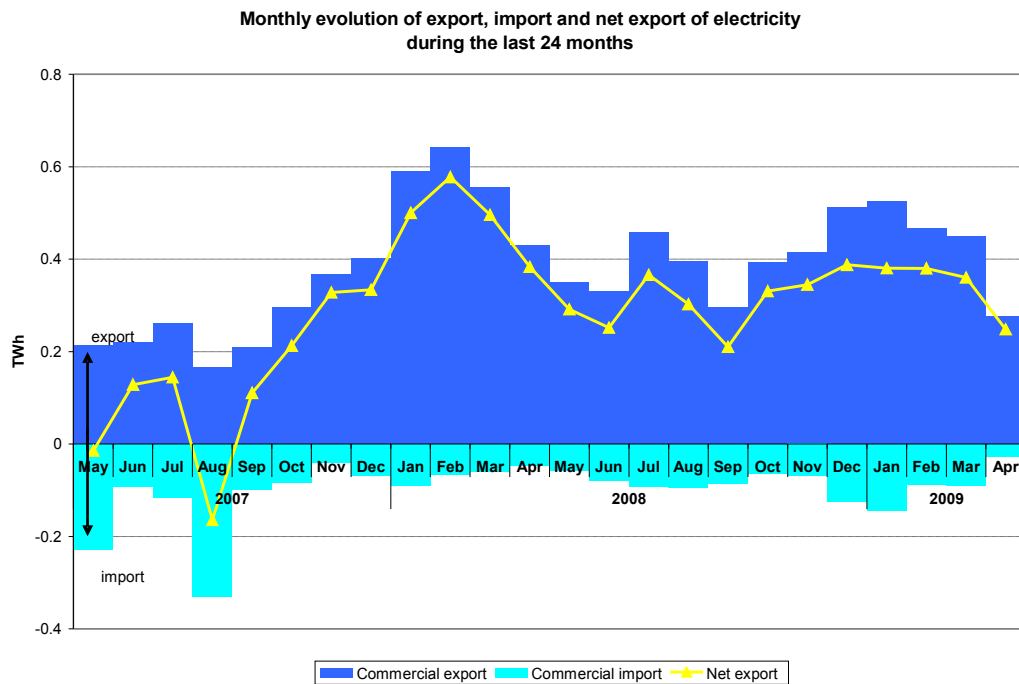
The evolution of the relation between the volumes sold on each market and the estimated internal consumption, for May 2008 – April 2009, is presented below:



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

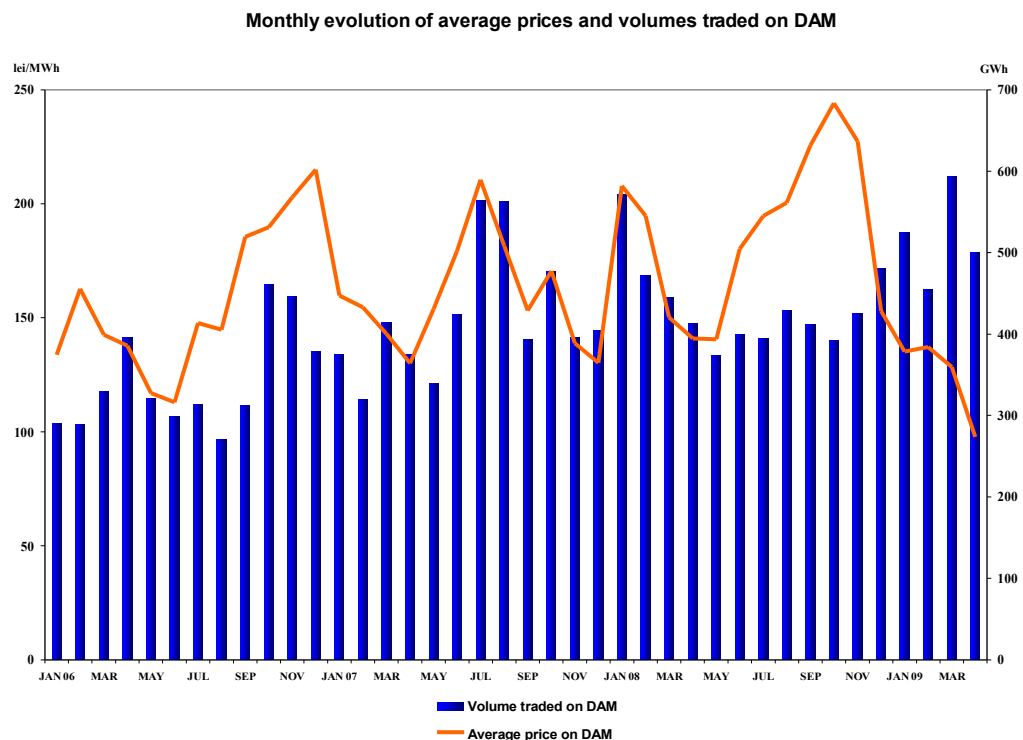
Note: In the above graph, the volumes traded on negotiated contracts' market do not include the export trades

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 Traselectrica SA – processed by MG

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



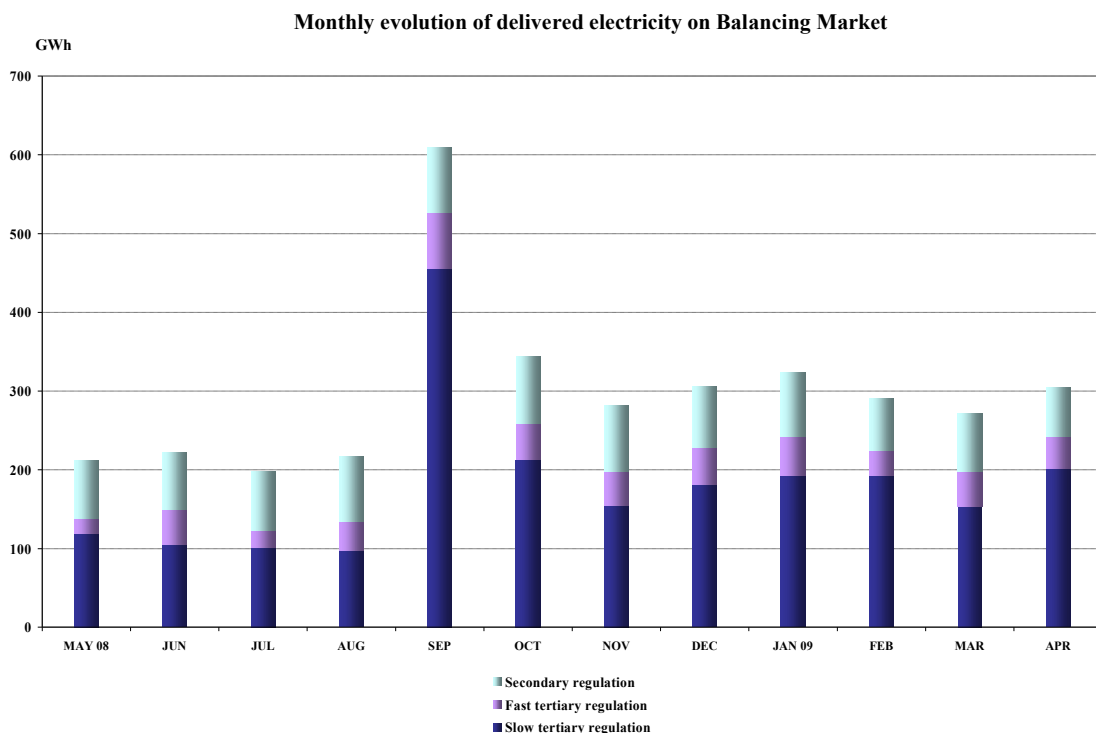
Source: Monthly reports of SC Opcom SA and CN Traselectrica SA – processed by MG

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 April 2009 is presented in the following table:

April 2009	Dispatch order (GWh)	Delivered electricity (GWh)	Deviation (%)
Secondary regulation	63	63	0
<i>upward</i>	22	22	0
<i>downward</i>	40	40	0
Fast tertiary regulation	48	41	16
<i>upward</i>	13	12	7
<i>downward</i>	35	29	19
Slow tertiary regulation	219	202	8
<i>upward</i>	42	38	9
<i>downward</i>	177	164	8
TOTAL	330	305	8
<i>upward</i>	77	72	6
<i>downward</i>	253	232	8
INTERNAL CONSUMPTION		3764	
% share of traded volumes from internal consumption		8.1%	

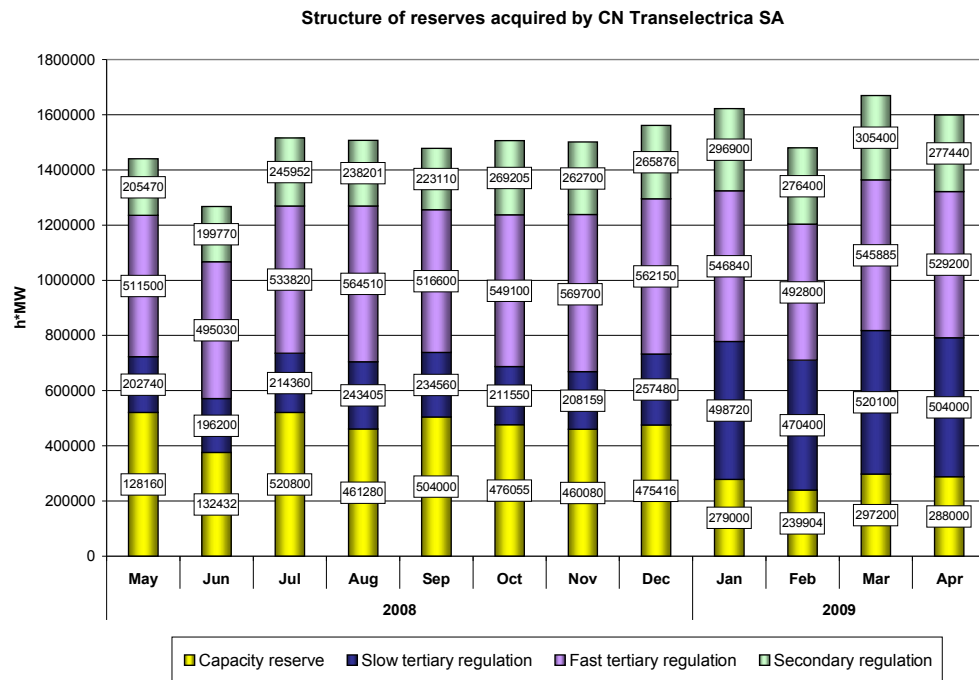
Source: Monthly reports of CN Transelectrica SA – processed by MG

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



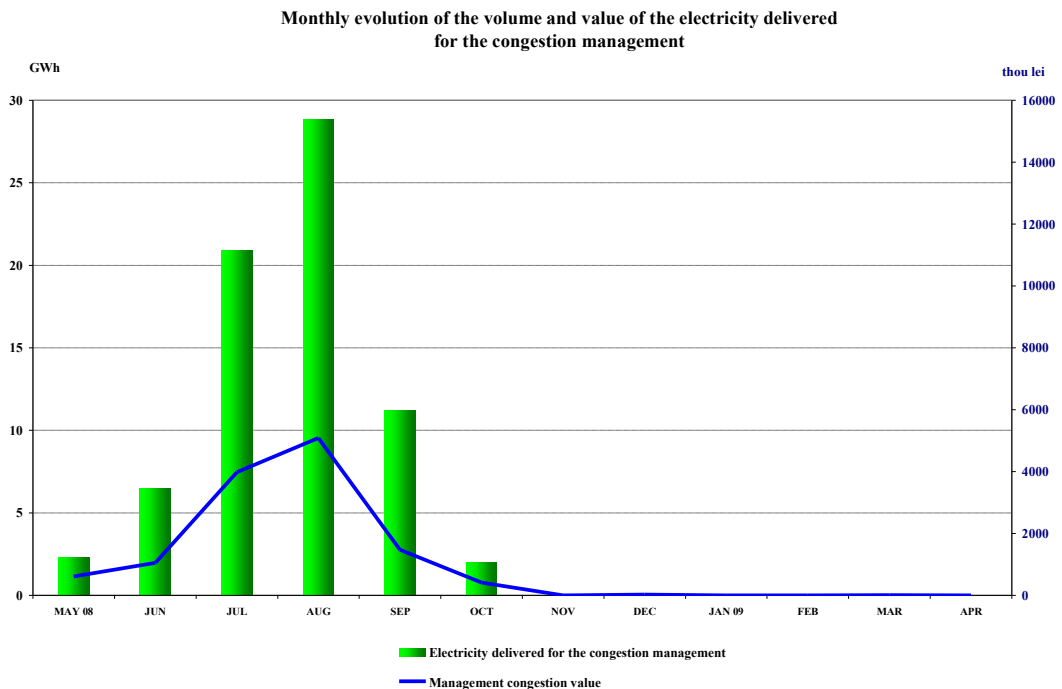
Source: Monthly reports of CN Transelectrica SA – processed by MG

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 Transelectrica SA during May 2008 – April 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 April 2009 compared to previous month and April 2008 was the following:

- GWh -

Transaction type	March 2009	April 2009	April 2008
0	1	2	3
Regulated to incumbents, thermal generators	1260.20	850.05	876.87
Regulated to incumbents, hydro generator	285.95	348.49	311.50
Regulated to incumbents, nuclear generator	501.22	486.27	491.05
Regulated for distribution losses, thermal generators	332.60	221.67	212.93
Regulated for distribution losses, hydro generator	64.08	75.12	87.11
Regulated for distribution losses, nuclear generator	147.78	143.37	143.74
Regulated for transmission losses, thermal generator	71.57	70.74	63.71
Regulated, to other generators (with return of obligation within a year)	49.13	43.56	32.95
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	151.22	123.11	106.13
Negotiated, to suppliers	1028.39	987.23	1231.57
Contracts concluded on centralized markets (CMBC, CMBC-NC, RCE)	611.81	497.53	695.77
Supply to consumers (regulated and competitive)	234.05	203.46	219.39
Export	114.24	102.56	128.12
DAM	236.43	207.01	307.88
Total	5088.69	4360.19	4908.74

Source: Monthly reports of generators – processed by MG

Suppliers

In April 2009, 65 companies having as main activity the supply of electricity concluded transactions on the electricity market; from these, 23 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 April 2009 compared to April 2008 of the suppliers acting exclusively on WEM, acquisitions and sales being split by categories of markets/participants:

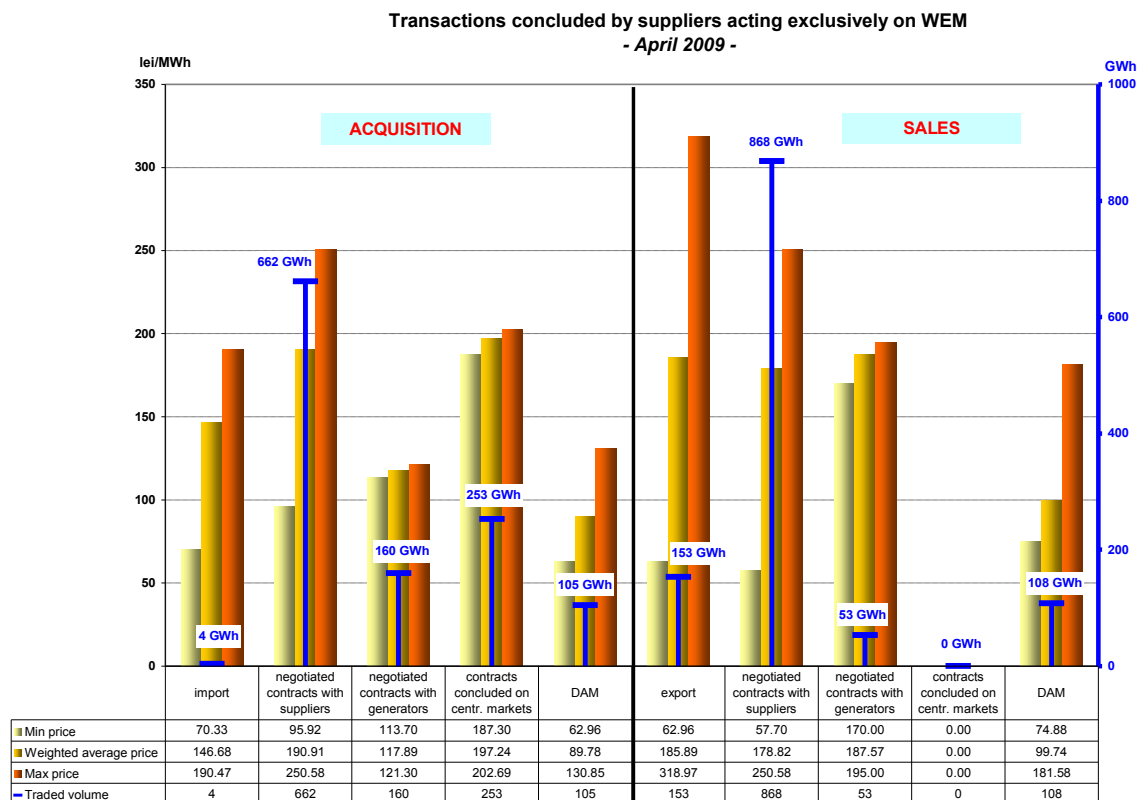
- GWh -

Transactions' structure of suppliers acting exclusively on WEM	April 2008	April 2009
Acquisitions		
Import	0.31	3.88
Negotiated contracts with suppliers	552.29	661.72
Negotiated contracts with generators	221.85	159.58
Contracts concluded on centralized markets	142.53*	252.84
DAM	59.19	104.58

Sales		
Export	283.02	153.31
Negotiated contracts with suppliers	637.85	868.18
Negotiated contracts with generators	48.51	53.10
Contracts concluded on centralized markets	-	-
DAM	6.34	107.91

**Data published in the Report on monitoring results of the electricity market – April 2008 were modified due to some corrections*

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 April 2009:



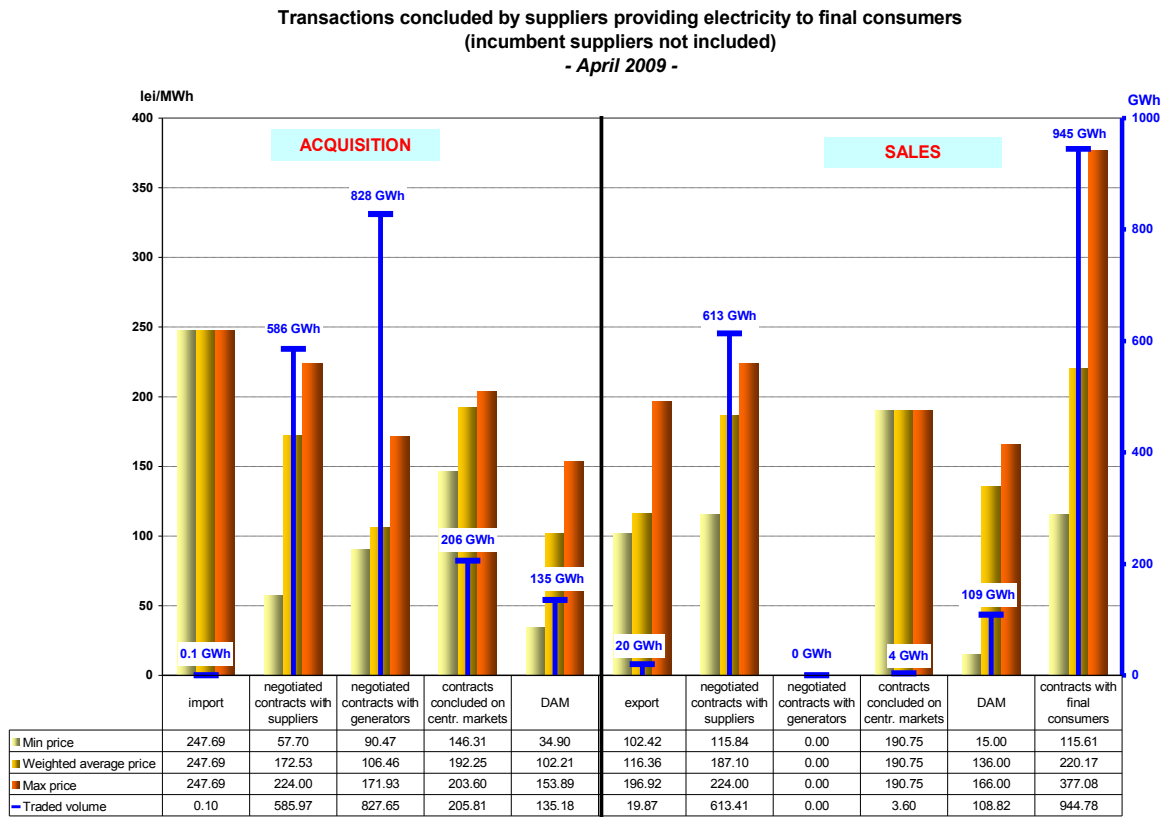
Active suppliers on REM (the incumbent suppliers are not included)

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

- GWh -		
Acquisition structure of suppliers providing electricity to final consumers (the incumbent suppliers are not included)	April 2008	April 2009
Import	45.08	0.10
Negotiated contracts with suppliers	625.23	585.97
Negotiated contracts with generators	1009.87	827.65
Contracts concluded on centralized markets	460.87*	205.81
DAM	106.41	135.18

**Data published in the Report on monitoring results of the electricity market – April 2008 were modified due to some corrections*

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 April 2009:



Incumbent suppliers

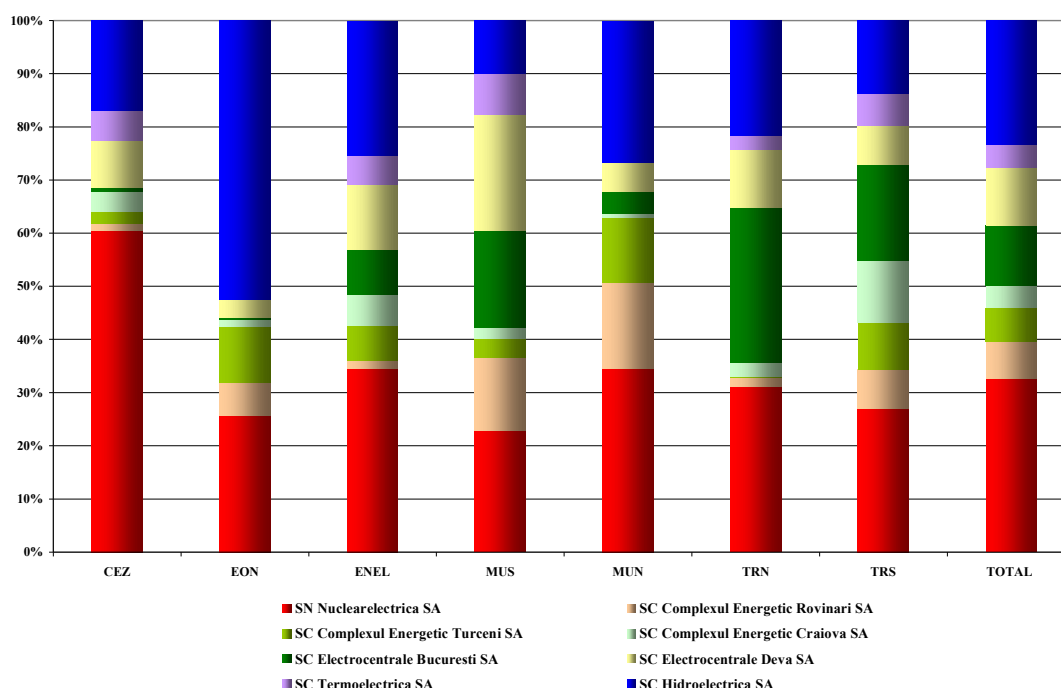
Electricity acquisition structure of incumbent suppliers (before the delivery day), for supplying the regulated market consumers, is presented in the table below, for April 2009 compared to the situation of April 2008:

- GWh -

Acquisition structure of incumbent suppliers for regulated REM component	April 2008	April 2009
Regulated contracts with generators	1723.76	1731.65
Negotiated contracts	49.68	28.34
Contracts concluded on centralized markets	6.53	-
DAM	99.10	73.91

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

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

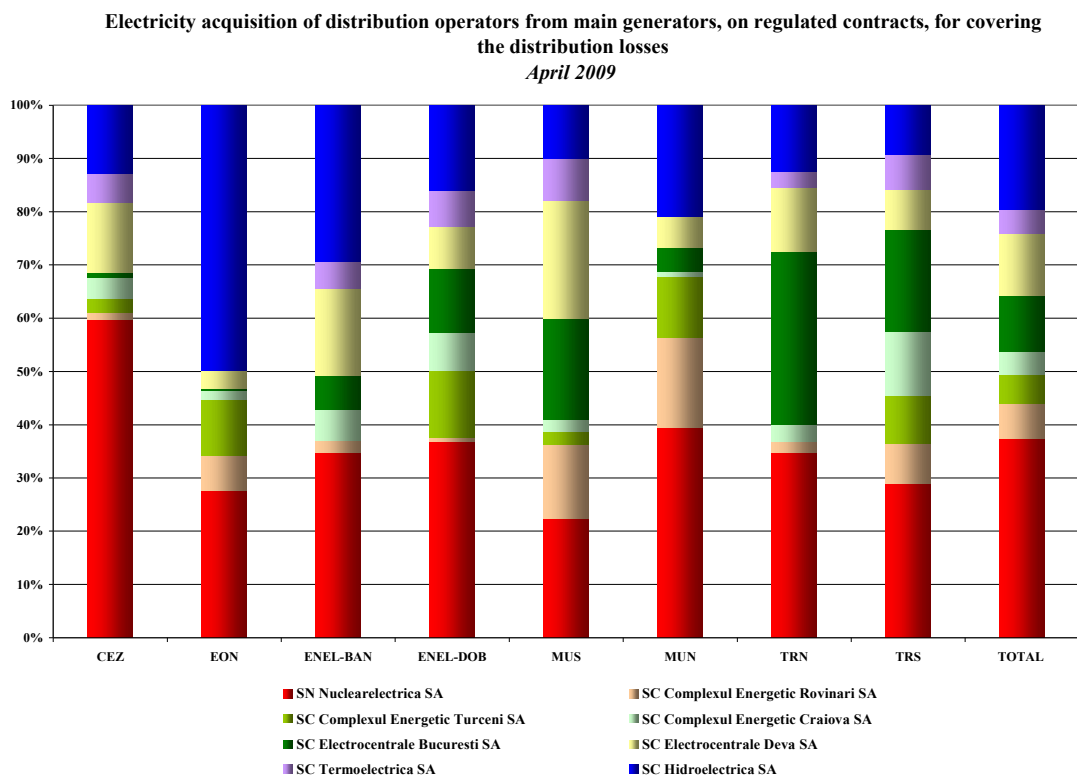
Acquisition structure of incumbent suppliers for competitive REM component	- GWh -	
	April 2008	April 2009
Import	-	23.38
Negotiated contracts with suppliers	210.94	235.34
Negotiated contracts with generators	-	-
Contracts concluded on centralized markets	85.24	6.48
DAM	85.20	61.58

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 April 2009 compared to April 2008:

Acquisition structure	- GWh -	
	April 2008	April 2009
Regulated contracts with generators	444.40	440.16
Negotiated contracts with suppliers	0.67	0.06
Contracts concluded on centralized markets	-	-
DAM	22.53	43.62

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 April 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

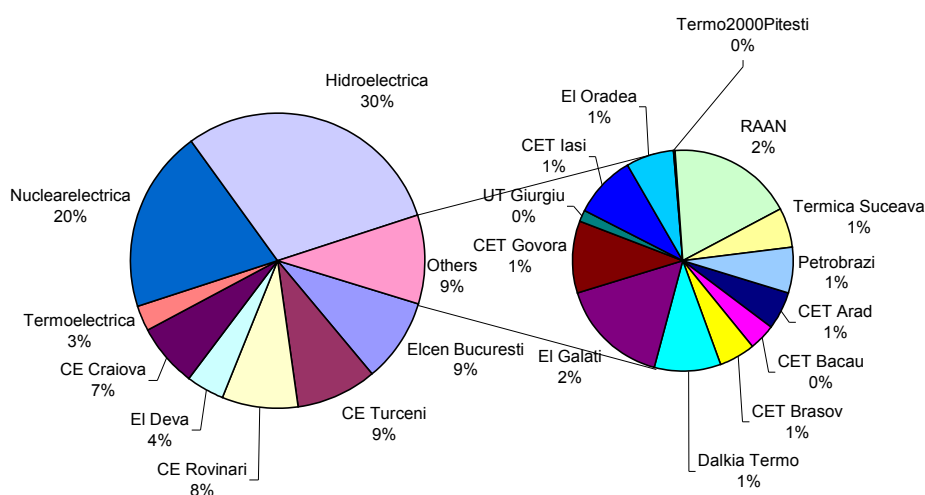
The market structure regarding the electricity generation offers an initial basis for analyzing the possible competitiveness level of the electricity market.

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

Concentration indicators - April 2009 -	C1 (%)	C3 (%)	HHI
Value	41	71	2334

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 four months of 2009. These market shares are calculated based on the electricity delivered into networks.

**Market shares of generators with dispatchable units by delivered electricity
January - April 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 April 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 - April 2009 -	Regulation					
	Secondary		Fast tertiary		Slow tertiary	
	upward	downward	upward	downward	upward	downward
C1 (%)	59	60	61	59	32	45
C3 (%)	88	87	86	89	80	82
HHI	3984	4032	4123	4088	2441	2942

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 April 2009:

Concentration indicators on ASM - April 2009 -		Secondary reserve	Fast tertiary reserve	Slow tertiary reserve	Capacity reserve
regulated component	contracted quantity (h*MW)	277440	529200	252000	0
	C1 (%)	46.9	79.6	51.4	0
	C3 (%)	79.2	90.4	100	0
competitive component	contracted quantity (h*MW)	0	0	252000	288000
	C1 (%)	0	0	52.6	44.5
	C3 (%)	0	0	100	86.3
	HHI	0	0	5013	3057

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

Concentration indicators on DAM - April 2009 -	C1 (%)	C3 (%)	HHI
Buying transactions	18	37	733
Selling transactions	21	42	914

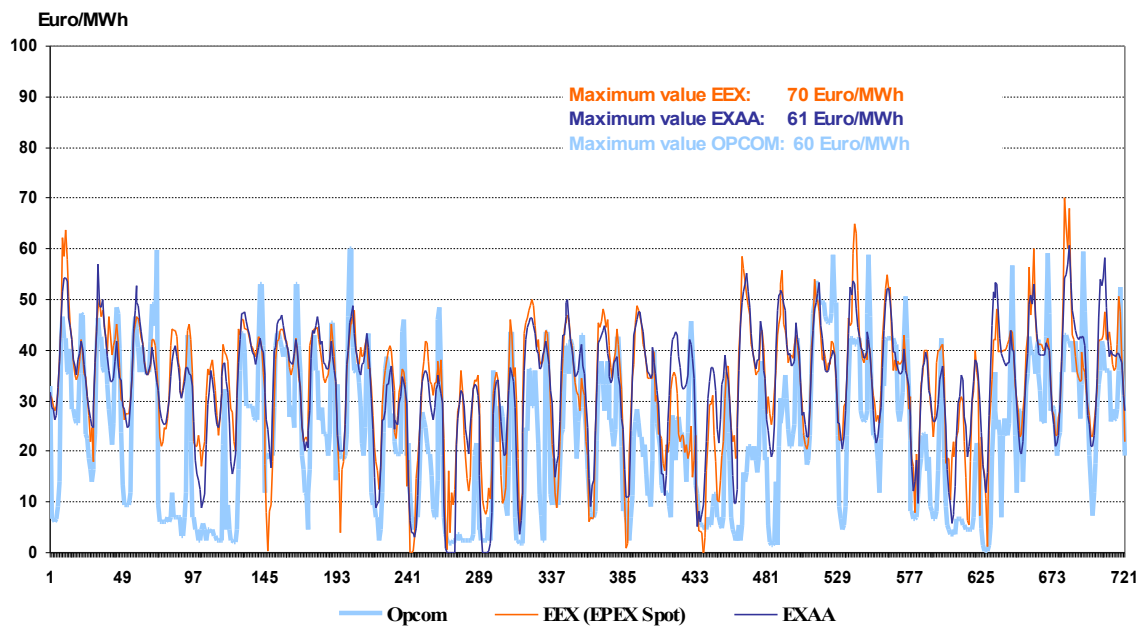
7. Price evolution on wholesale electricity market

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 April 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

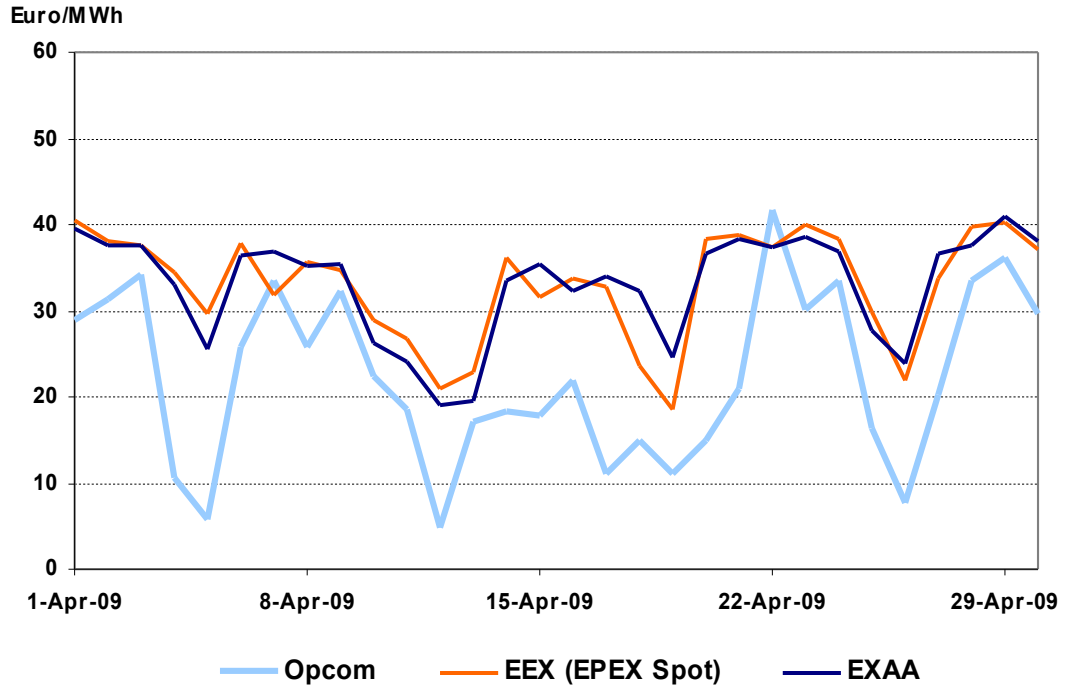
April 2009



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

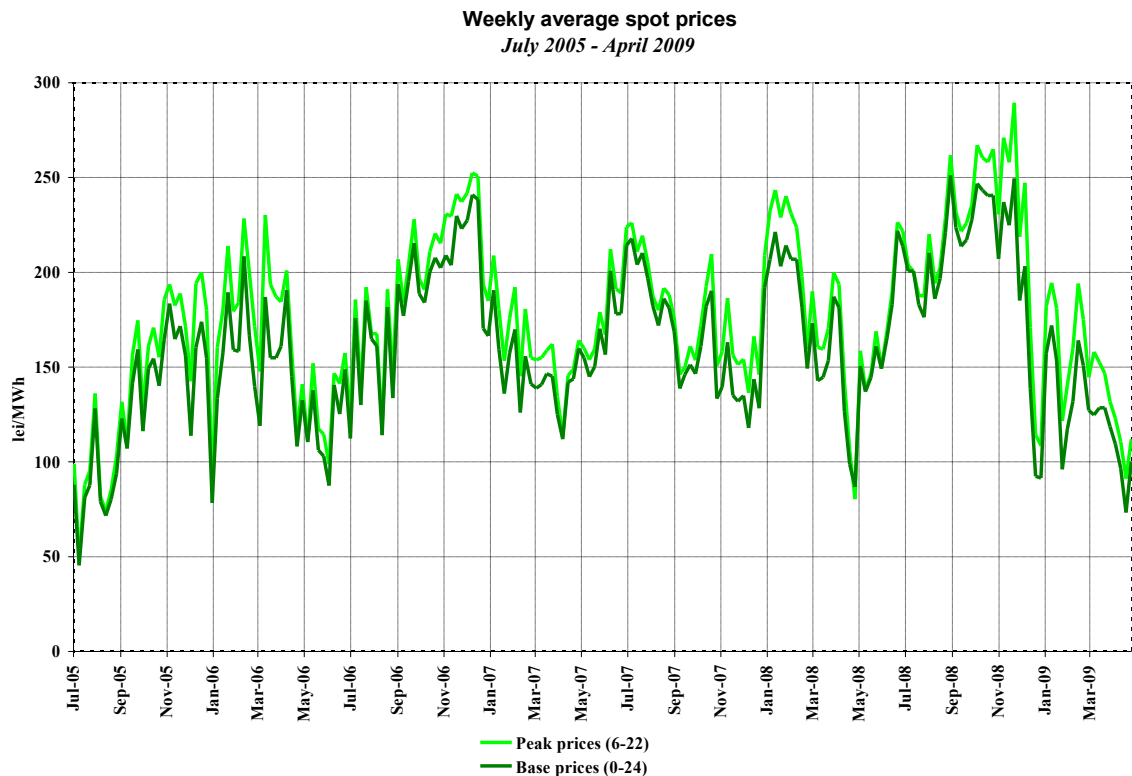
DAILY AVERAGE SPOT PRICES

April 2009



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

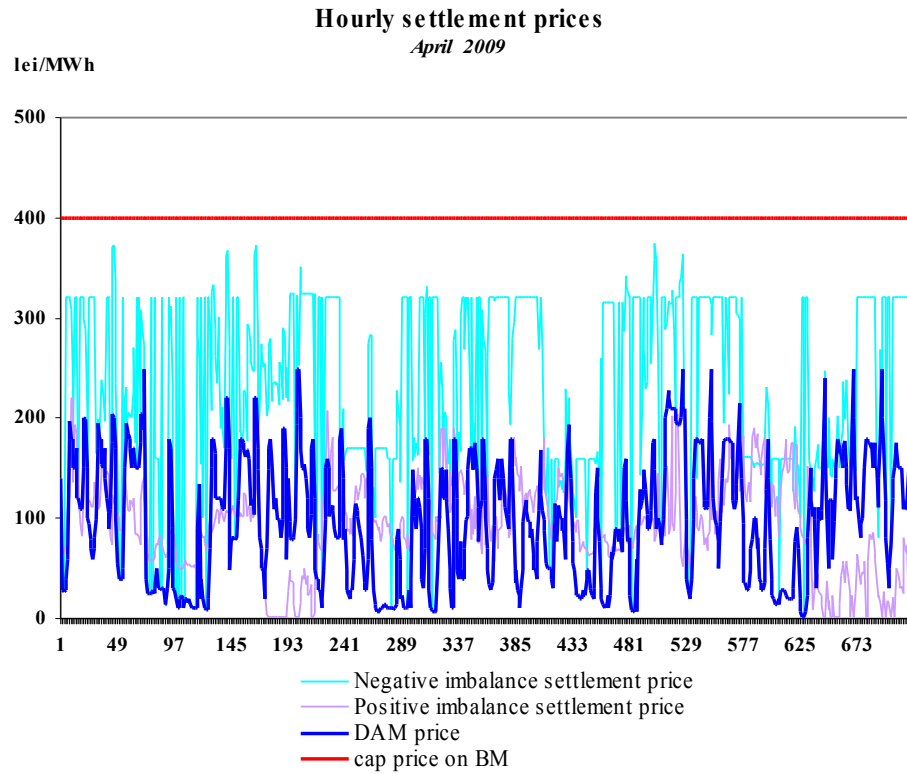
The following graph presents the evolution of weekly average spot prices starting with July 2005:



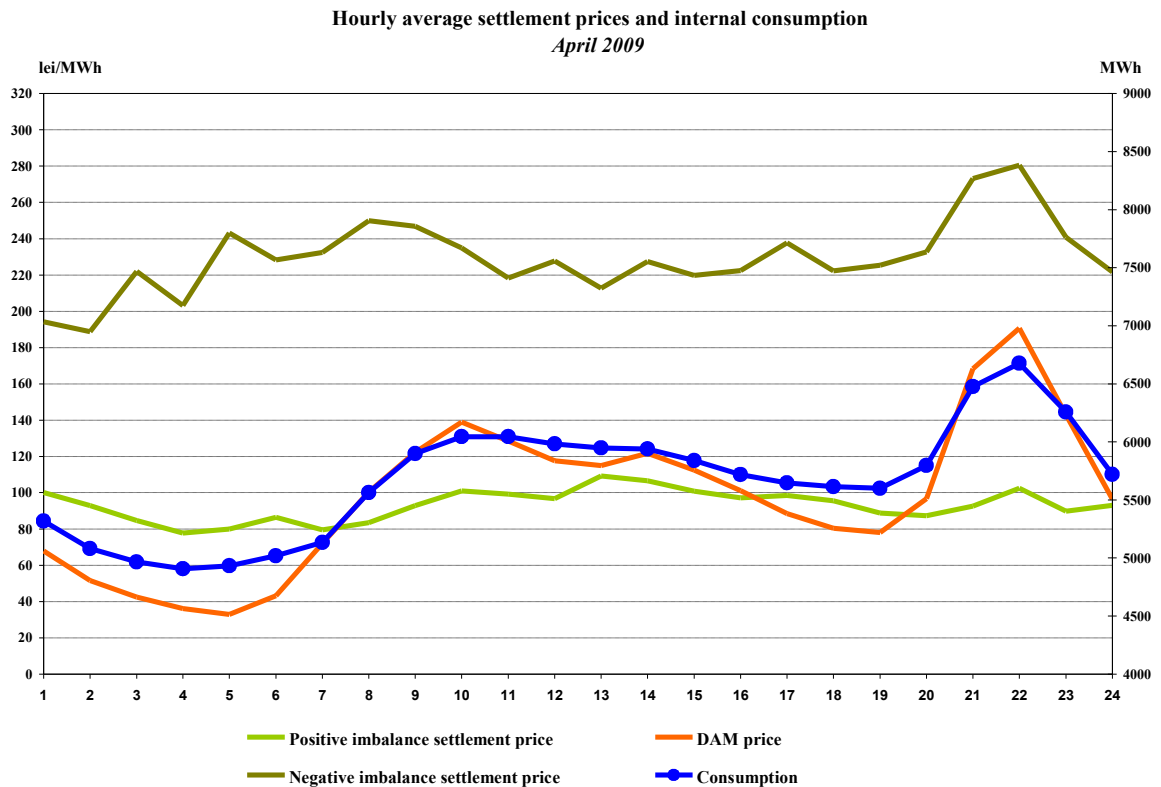
Source: Daily reports of SC Opcom SA – processed by MG

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.

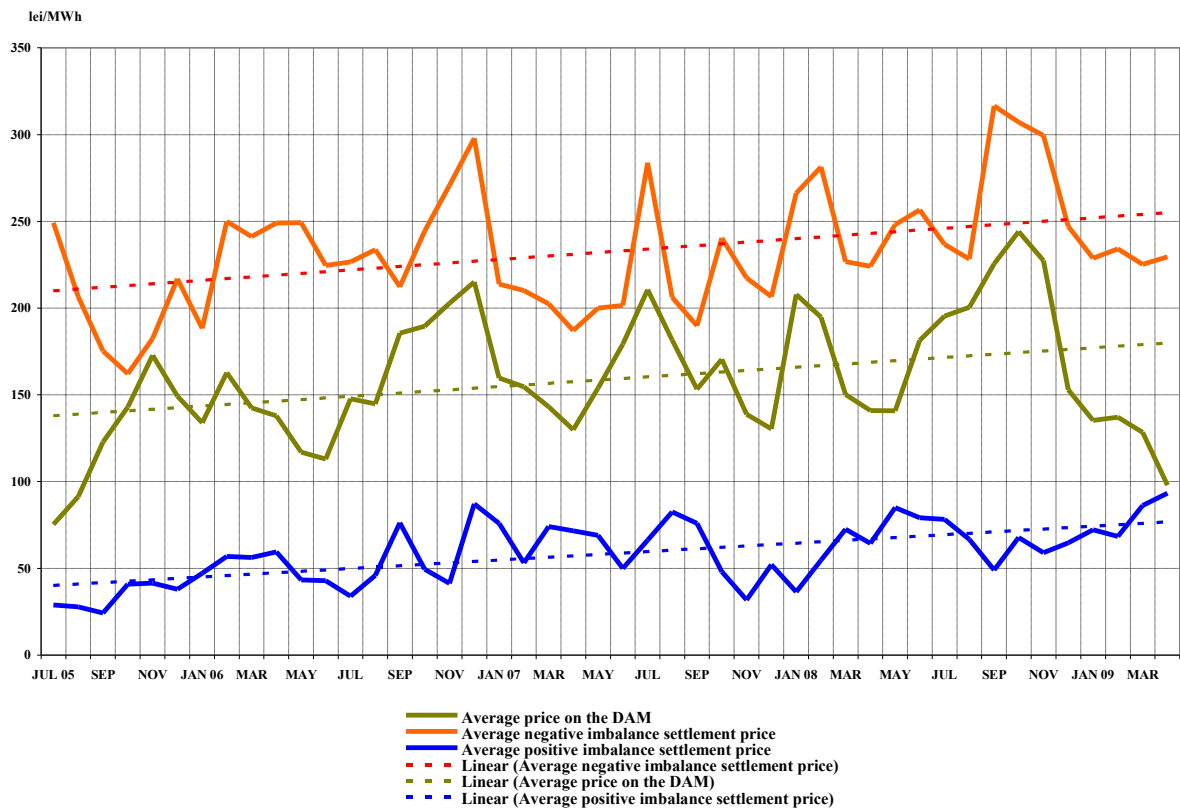


Source: Daily/monthly reports of SC Opcom SA – processed by MG



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

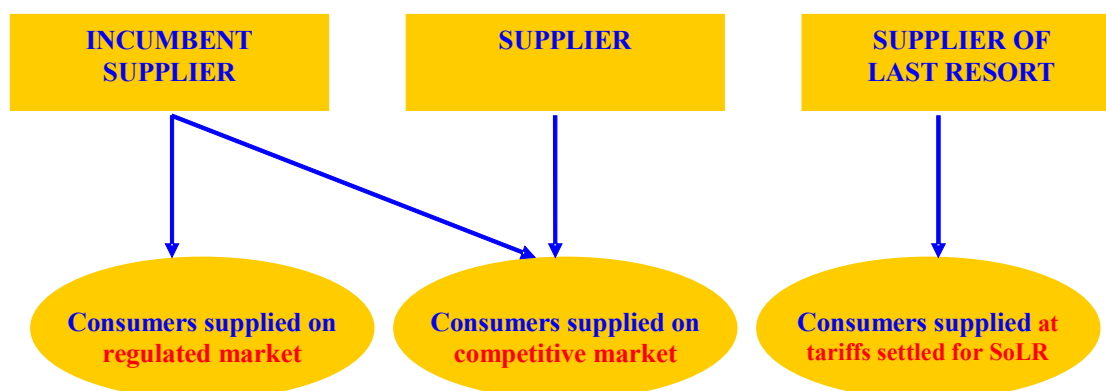
Monthly average prices on DAM and BM
July 2005 - April 2008



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

III. RETAIL ELECTRICITY MARKET

1. Structure of the retail electricity market

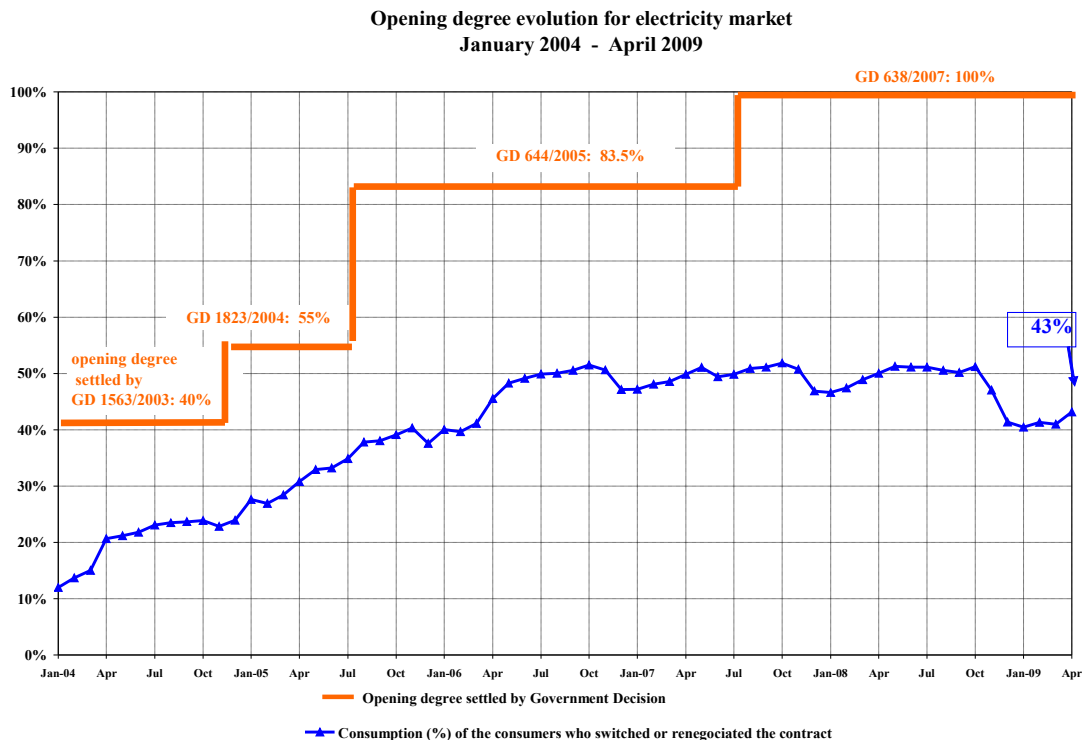


2. Steps in the opening process of the electricity market

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

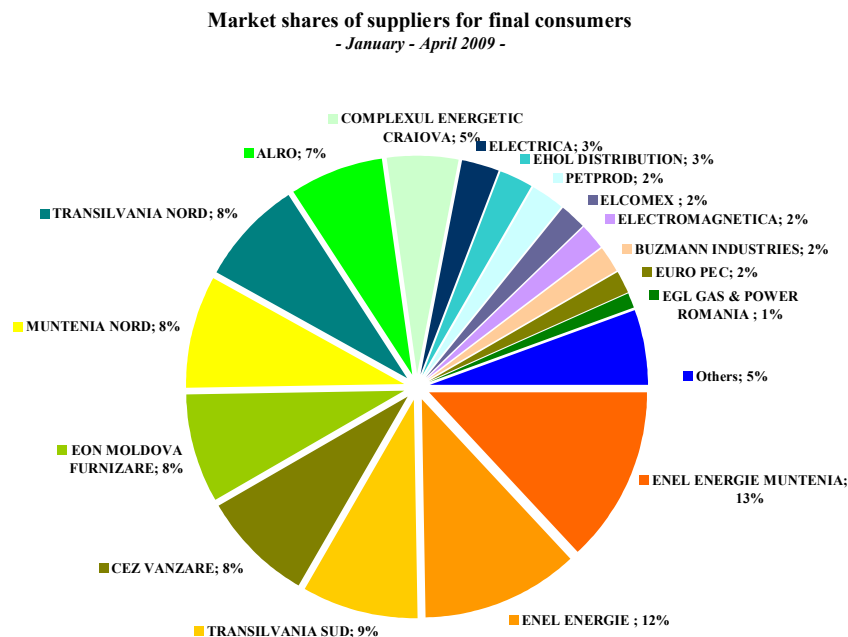


Source: Monthly reports of the final consumers' suppliers – processed by MG

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:

- 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;

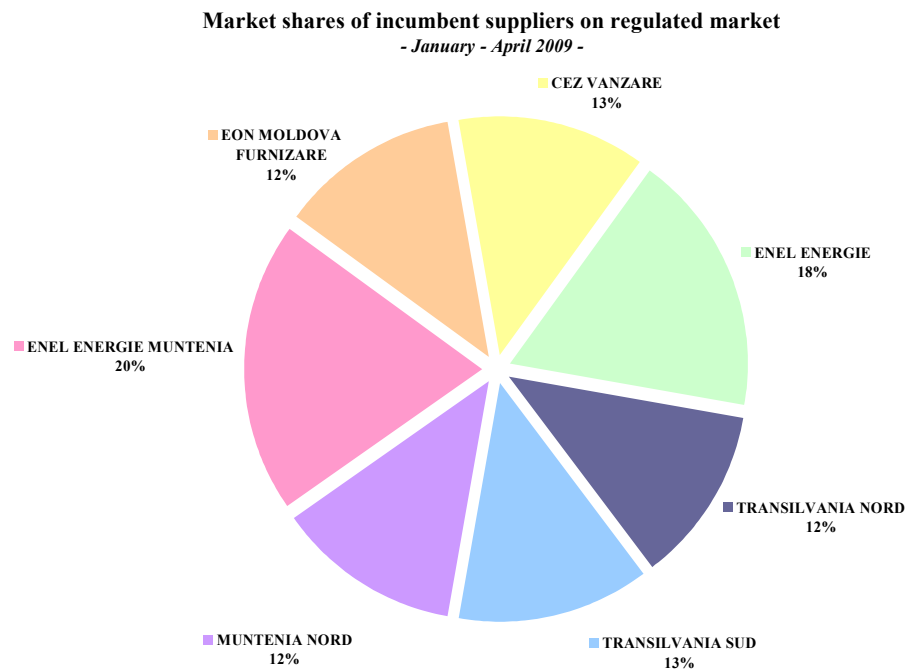


Final consumption: 13919 GWh

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,

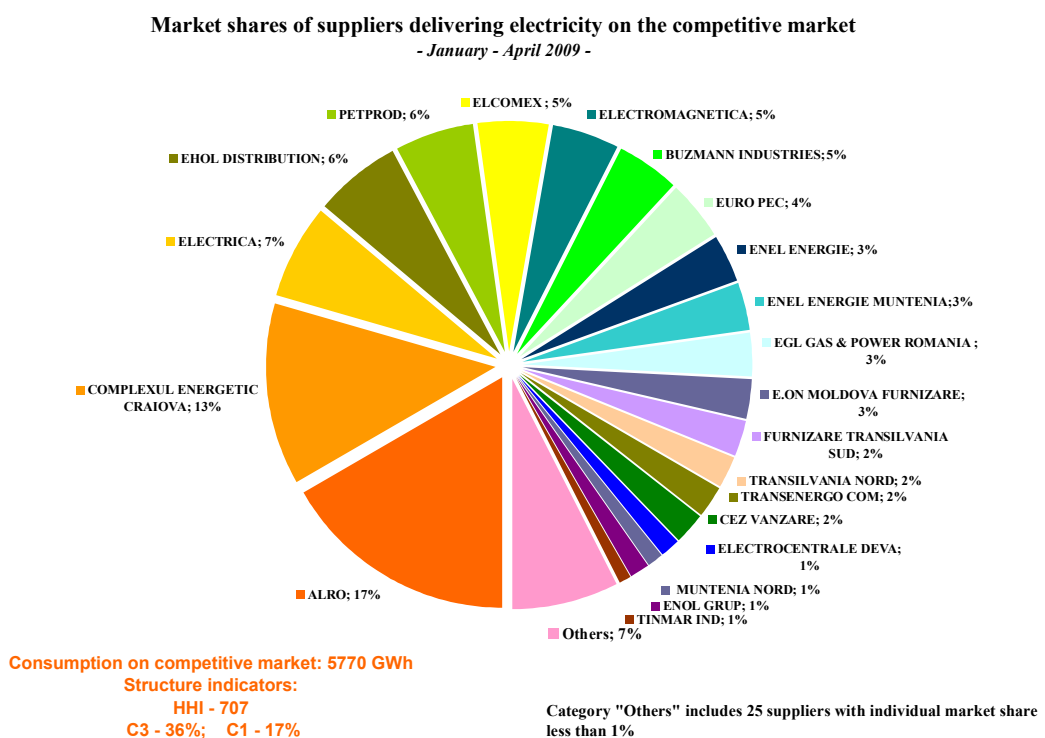


Consumption of consumers supplied at regulated tariffs: 8149 GWh

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

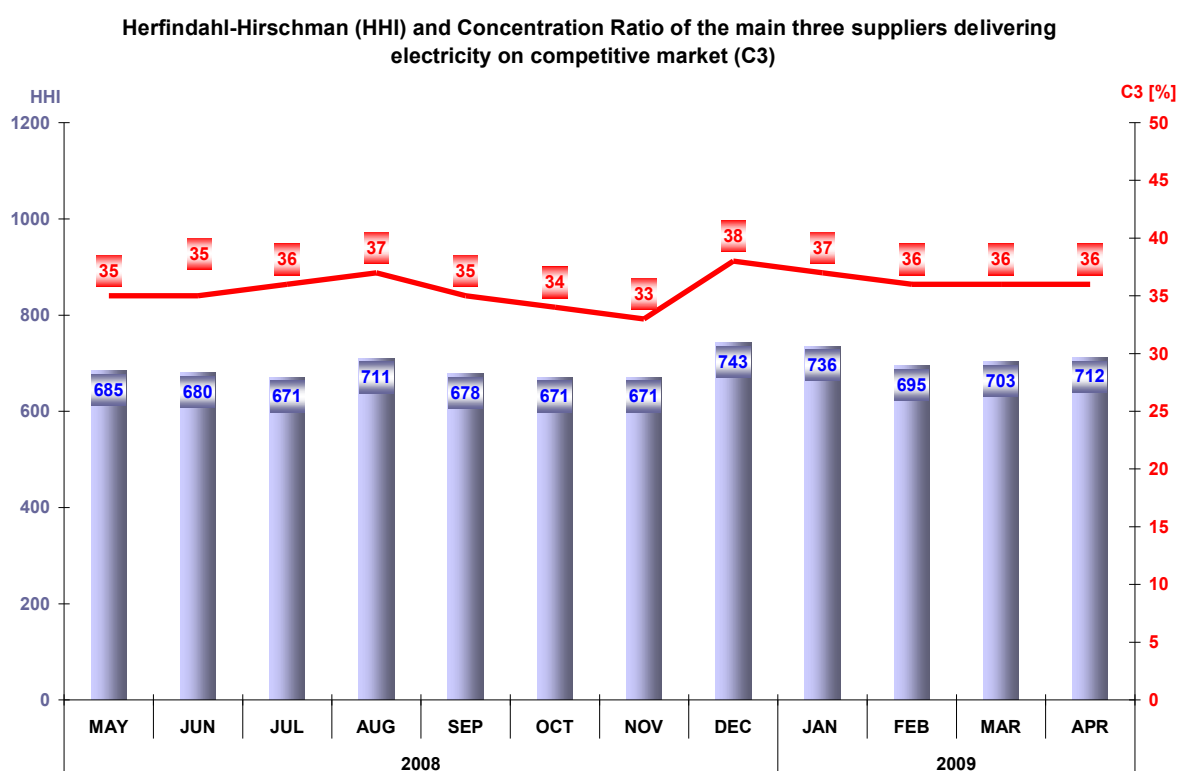
The electricity supplied to the final consumers used for calculating the market share of every supplier includes also the self-consumption of that particular supplier (e.g. consumers with supply license who buy electricity for themselves from WEM as competitive suppliers).

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 April 2009:

Number of suppliers - April 2009 -	Share of sales to final consumers from total sales transactions			
	100%	75% - 100%	50% - 75%	<50%
Competitive	10	7	7	11
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

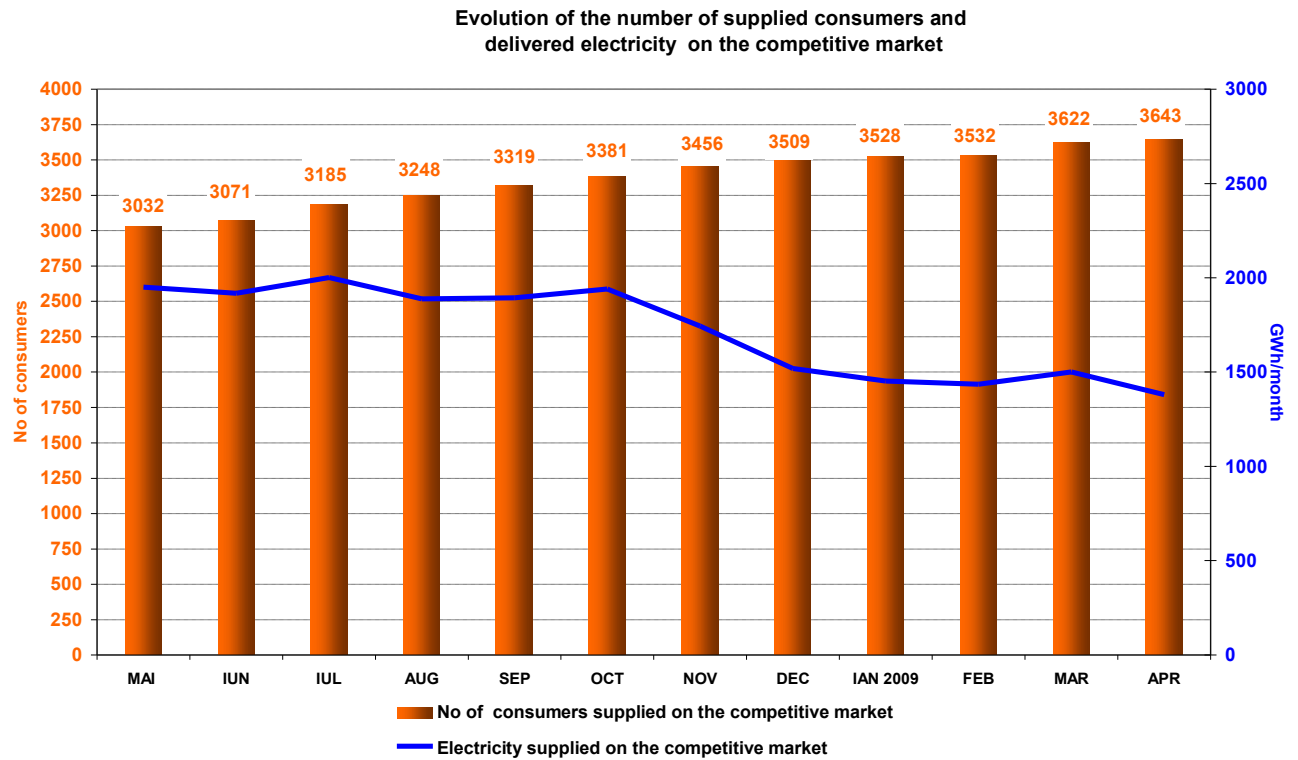
The table below shows the values of structure indicators of competitive component of REM in April 2009 and number of active suppliers, calculated for each consumer category as defined by the European Council Directive no. 90/377/EEC, modified by the Commission Decision no. 2007/394/EC:

Indicators - April 2009 -	Consumer category							Total
	IA	IB	IC	ID	IE	IF	Others	
C1 (%)	51	35	18	14	15	29	33	17
C3 (%)	85	65	41	36	37	60	64	35
HHI	3218	1796	841	677	747	1573	1874	712
Consumption (GWh)	0.3	27	74	278	148	126	726	1381
No. of suppliers	9	31	35	37	21	11	11	46
Incumbent suppliers	6	7	7	7	6	2	0	7
Competitive suppliers	3	22	25	28	14	9	8	35
Generators acting as suppliers	0	2	3	2	1	0	3	4

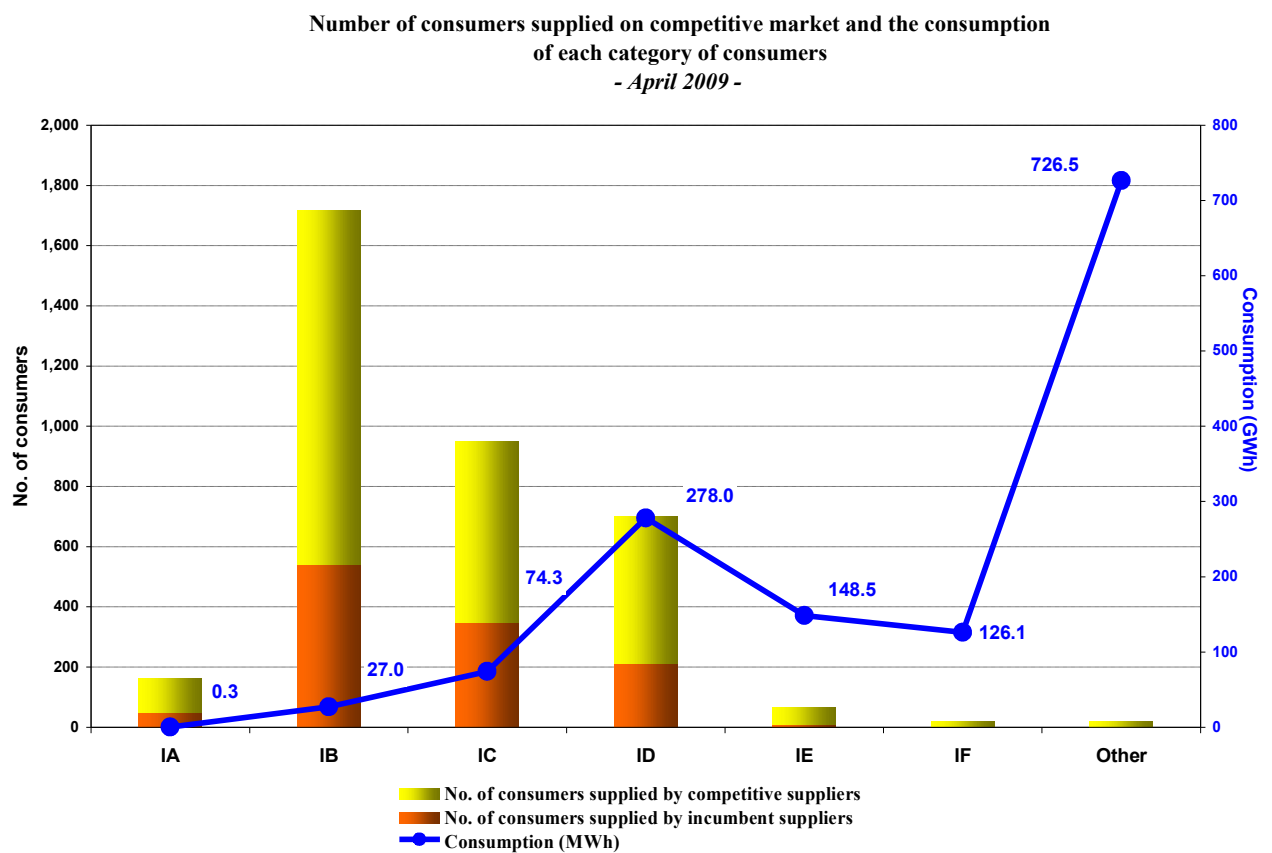
6. Evolution of consumers' number and of the electricity delivered

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

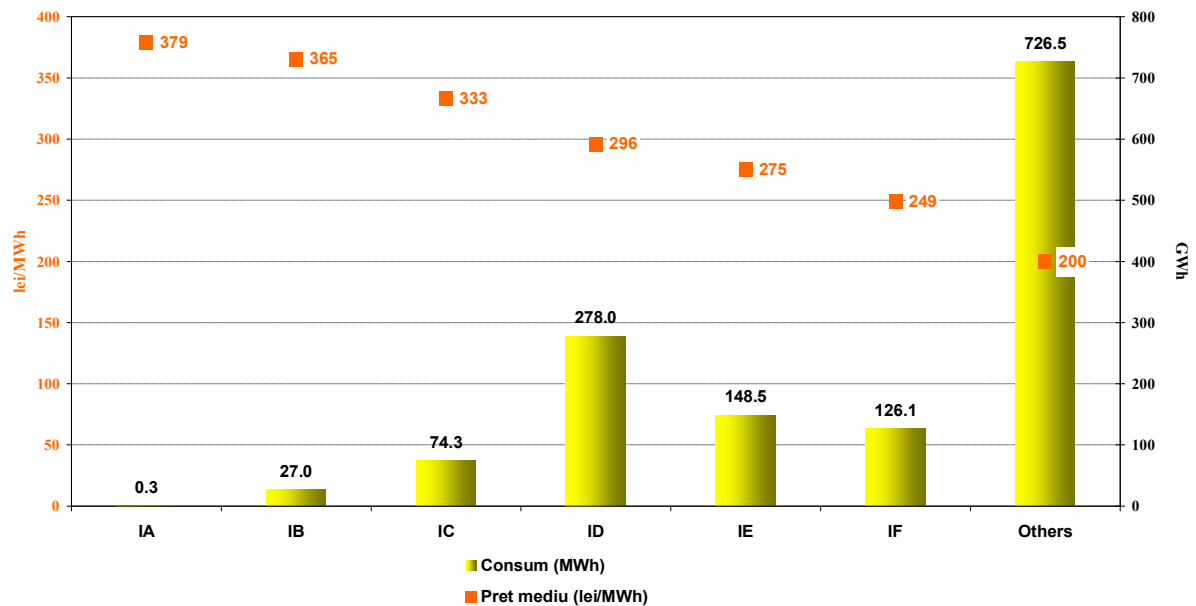


Source: Monthly reports of the suppliers – processed by MG

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 supplied on competitive market
- April 2009 -



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).

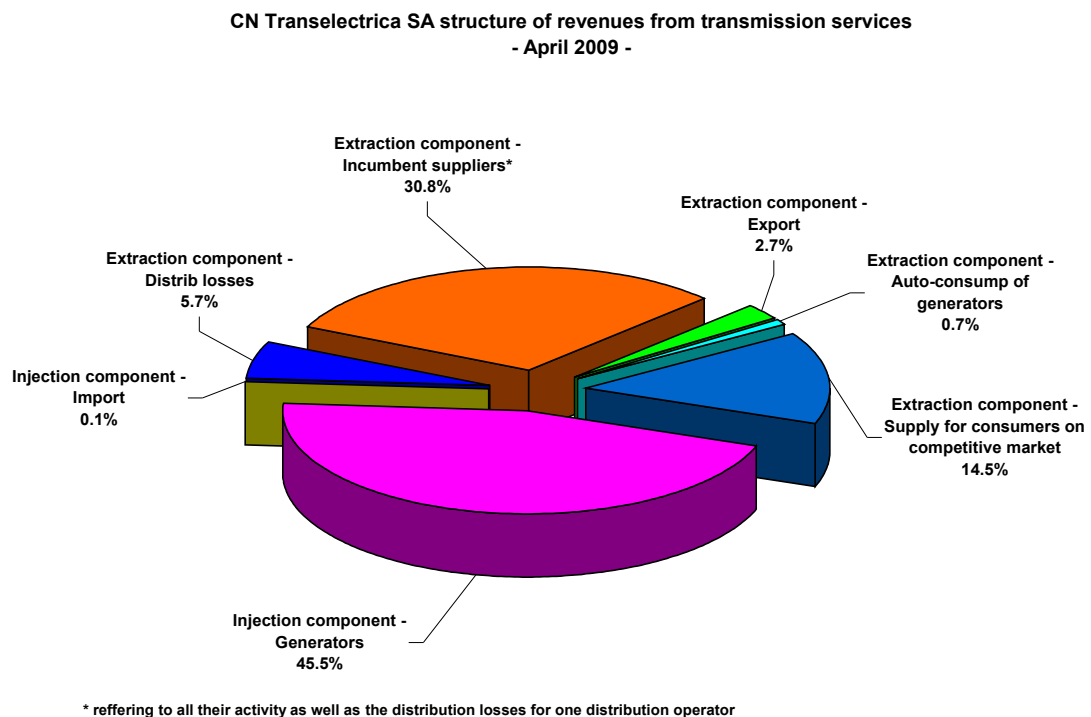
Splitting consumers into categories was based on their annual consumption forecast, according to the provisions of above mentioned Directive.

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 April 2009.

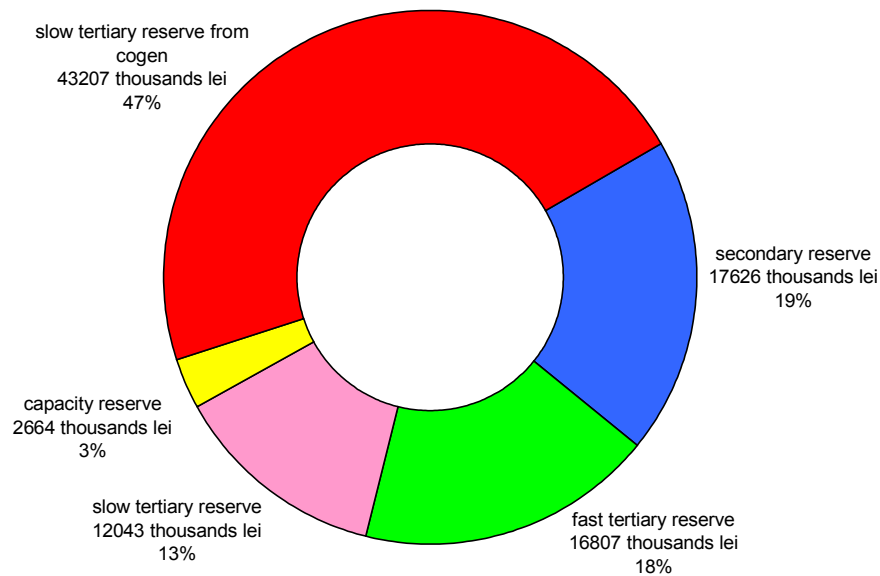


Source: Monthly reports of CN Transelectrica SA – processed by MG

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 April 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
- April 2009 -



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

V. EVOLUTION OF MARKET RULES IN APRIL 2009

- In April 2009, ANRE issued Order no. 50/2009 for approving the framework-contract of selling-buying the heat produced by generators which are regulated by ANRE. Related to the electricity market, it's worth mentioning that this framework-contract specifies the buyer's obligation to draw up and yearly update its daily heat load curves. These values are to be determined based on actual values from the most recent characteristic periods of time. The buyer has also to communicate the monthly quantities contracted and the maximum and minimum heat load for each month. All these provisions establish the precision by which the generator can determine its next day forecast of heat load, in order to validate its priority generation.
- ANRE also issued Order no. 51/2009 for approving the technical conditions of connecting the wind turbines/units to the public electricity grids – Technical Norms (in addition to Technical Code of transmission grid and Technical Code of distribution grid). This document specifies the minimal technical requirements to be accomplished by wind turbines in order to receive authorisation to connect to the public electricity grid with respect to NES security. Moreover, the document stipulates restrictions on the upper limit of total installed power in wind turbines for which the connection authorisation can be issued in order to maintain a safe level of NES security of supply. According to this, TSO has the obligation to determine the maximum total power that can be installed in this type of power units and the additional capacity reserve necessary for the safe operation of NES.
- No regulations concerning the functioning of the retail electricity market were issued in April 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