

**REPORT ON RESULTS OF MONITORING THE
ROMANIAN ELECTRICITY MARKET
NOVEMBER 2009**

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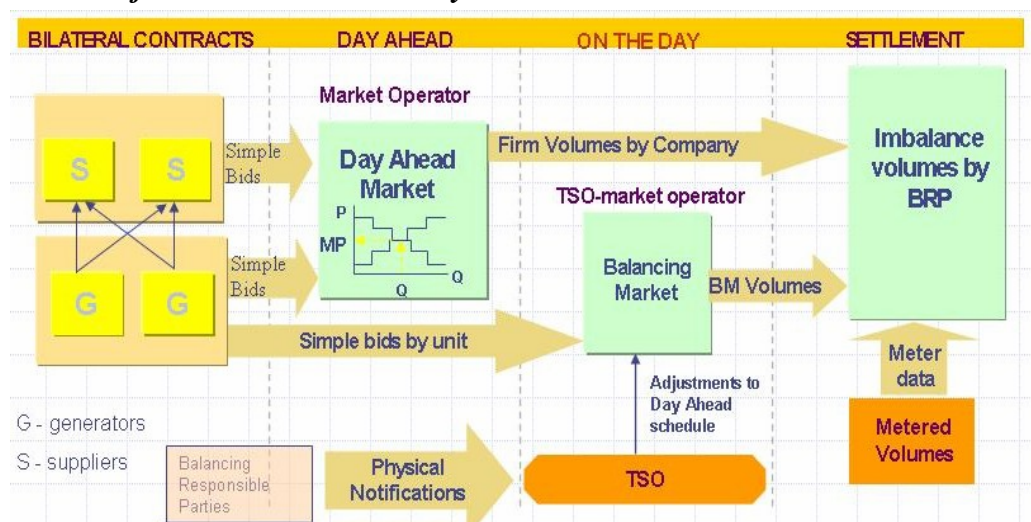
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I. MAIN EVENTS IN THE DEVELOPMENT OF THE ROMANIAN ELECTRICITY MARKET

- **GD 365/1998** – vertically integrated 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

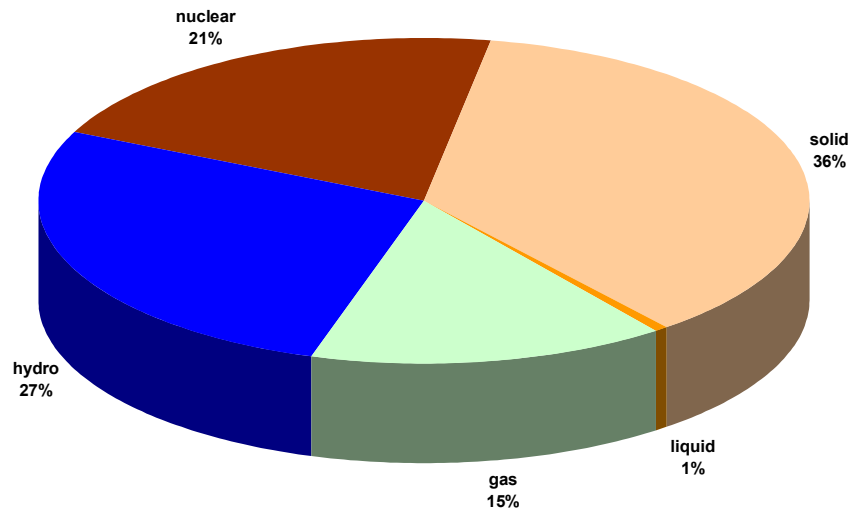
The market participants* acting on the electricity market in November 2009 are presented below split into categories:

Nr. crt.	Denumire	Observatii	Nr. crt.	Denumire
A Producători de energie electrică care exploatează unități de producere			F Furnizori de energie electrică cu activitate exclusivă pe piața angro	
1	SC CET Bacău SA		1	SC Atel Energy Romania SRL
2	SC CET Brașov SA		2	SC AMV Style SRL
3	SC CET Govora SA		3	CEZ as
4	SC CET Iași SA		4	SC CEZ Trade Romania SRL
5	SC CET Oradea SA		5	SC EFT Romania SRL
6	SC Electrocentrale București SA		6	SC Encaz SRL
7	SC Electrocentrale Galați SA		7	SC Enel Trade Romania SRL
8	SC Dalkia Termo Prahova SRL		8	SC Energy Distribution Services SRL
9	SNP Petrom Sucursala Petrobrazi		9	SC Energy Market Consulting SRL
10	SC Termica SA Suceava		10	SC E.ON Energy Trading SE
11	SC Termoelectrica SA		11	SC Edison Trading SpA
12	Serviciul Public Local de Termoficare Pitesti		12	SC Ezpada SRL
13	SC Uzina Termică Giurgiu SA		13	Ezpada SRO
14	SN Nuclearelectrica SA		14	SC GDF Suez Energy Trading Romania SRL
15	SC CE Rovinari SA		15	SC Global Electric Trading SRL
16	SC CE Turceni SA		16	SC Grivco SA
17	RAAN		17	SC Invest Dinamic Project SRL
18	SC CE Craiova SA	Activează pe piața de energie electrică și în calitate de furnizori de energie electrică	18	SC Jas Budapest Zrt
19	SC CET Arad SA		19	SC Korla Invest SRL
20	SC Electrocentrale Deva SA		20	SC Merrill Lynch Commodities (Europe)
21	SC Hidroelectrica SA		21	SC Re Energie SRL
B Operator de transport și de sistem			Nr. crt. Denumire	
1	CN TRANSELECTRICA SA	Operatorul pieței de echilibrare	G Furnizori de energie electrică	
C Operator PZU			1	SC Alro SA
1	SC OPCOM SA	Operatorul pieței de certificate verzi, al PCC, operator de decontare	2	SC Arelco Distributie SRL
D Operatori de distribuție			3	SC Beny Alex SRL
1	SC CEZ Distribuție SA	Operatori ai rețelelor de distribuție	4	SC Biol Energy SRL
2	SC ENEL Distribuție Banat SA		5	SC Buzmann Industries SRL
3	SC ENEL Distribuție Dobrogea SA		6	SC Eco Energy SRL
4	SC E.ON Moldova Distribuție SA		7	SC EFE Energy SRL
5	SC ENEL Distribuție Muntenia SA		8	SC EGL Gas & Power Romania SA
6	SC FDEE Electrica Distribuție Muntenia Nord SA		9	SC Ehol Distribution SRL
7	SC FDEE Electrica Distribuție Transilvania Sud SA		10	SC Elcomex EN SRL
8	SC FDEE Electrica Distribuție Transilvania Nord SA		11	SC Electrica SA
E Furnizori impliciti			12	SC Electricom SA
1	SC CEZ Vanzare SA	Activează pe piața de energie electrică și în calitate de furnizori ai consumatorilor alimentați în regim concurențial	13	SC Electromagnetica SA
2	SC ENEL Energie SA		14	SC Energotrans
3	SC E.ON Moldova Furnizare SA		15	SC Energy Holding SRL
4	SC ENEL Energie Muntenia SA		16	SC Energy Network SRL
5	SC FFEE Electrica Furnizare Muntenia Nord SA		17	SC Enex SRL
6	SC FFEE Electrica Furnizare Transilvania Sud SA		18	SC Ennet Grup SRL
7	SC FFEE Electrica Furnizare Transilvania Nord SA		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 Energ SRL
			27	SC ICPE Electrocond Technologies SA
			28	SC Luxten LC SA
			29	SC Petprod SRL
			30	SC Renovation Trading SRL
			31	SC Timmar 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

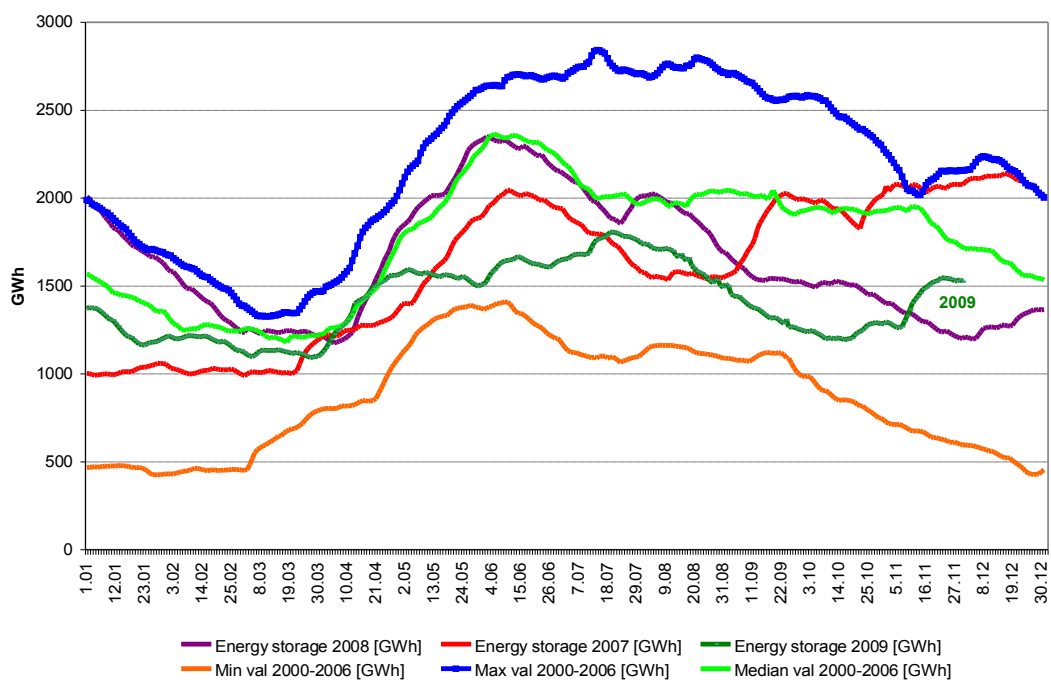
Electricity structure by primary sources
(delivered by generators with dispatchable units)
November 2009



Source: Monthly reports of generators – processed by MG

The electricity generated from hydro resources and the energy stored in the main water reservoirs are directly correlated. The following graph presents the evolution of daily amounts of energy storage in November 2009 compared to daily values in 2007 and 2008 and to minimum, maximum and median values from 2000-2006.

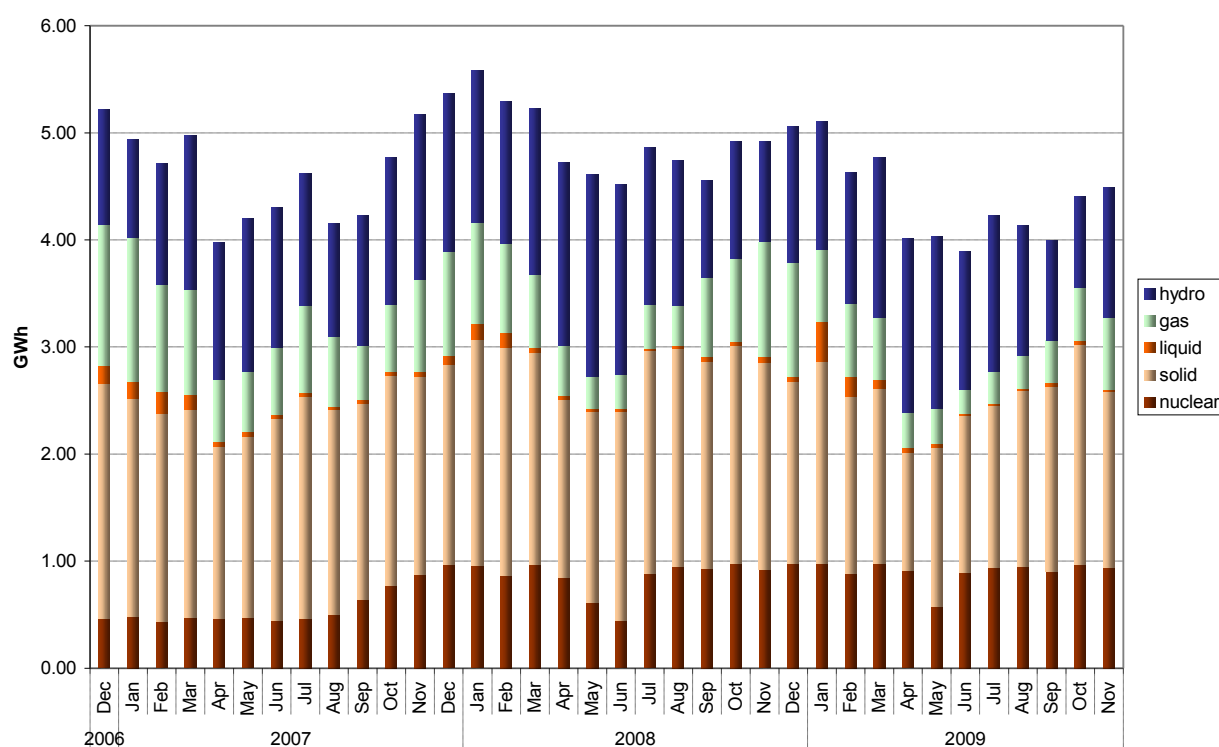
Yearly evolution of daily values of energy stored in the main water reservoirs



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

The evolution of delivered electricity structure, starting with December 2006, is the following:

Evolution of electricity delivered by generators with dispatchable units by primary sources



Source: Monthly reports of generators – processed by MG

The following table presents the main data regarding the physical balance of electricity for November 2009 and for the first 11 months of 2009, compared to data for similar periods of 2008:

No.	Indicator	MU	Nov 2008	Nov 2009	%	Jan-Nov 2008	Jan-Nov 2009	%
0	1	2	3	4	$5=4/3*100$	6	7	$8=7/6*100$
1	Generated electricity	TWh	5.38	4.90	91.18	58.49*	51.57	88.17
2	Delivered electricity	TWh	4.92	4.50	91.34	54.00*	47.36	88.36
3	Import	TWh	0.07	0.06	89.63	0.80	0.63	79.41
4	Export	TWh	0.41	0.20	47.74	4.85	2.98	61.46
5	Internal consumption	TWh	4.58	4.36	95.25	49.95*	45.37	90.83
6	Consumption of household consumers on the regulated market	TWh	0.91	0.94	103.30	9.37*	9.98	106.51
7	Consumption of non-households consumption	TWh	2.80	2.63	93.93	32.98*	27.97	84.81
7.1	<i>on the regulated market</i>	TWh	1.05	0.96	91.43	11.89*	11.03	92.77
7.2	<i>on the competitive market</i>	TWh	1.74	1.67	95.98	21.09	16.94	80.32
8	Transmission – Injection component	TWh	4.85	4.43	91.31	53.05	46.62	87.89

9	Transmission – Extraction component	TWh	4.90	4.52	92.21	53.75	47.45	88.28
10	System services	TWh	4.90	4.52	92.21	53.75	47.45	88.28
11	Actual transmission grid losses	TWh	0.08	0.09	110.32	0.91	0.91	99.79
12	Heat generated for delivery	Tcal	2090.99	1886.88	90.24	16081.62*	14763.30	91.80
13	Heat in co-generation	Tcal	1827.79	1609.37	88.05	13179.24*	12059.34	91.50

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

TRANSACTIONS ON THE WHOLESALE MARKET	October 2009	November 2009	November 2008
1. BILATERAL CONTRACTS' MARKET			
traded volume (GWh)	5859 ¹	5840	5415
% from internal consumption (%)	136.6 ¹	133.9	118.3
average price (lei/MWh)	161.62 ¹	162.68	163.18
1.1. Sales on regulated contracts			
traded volume (GWh)	2685	2828	2629
% from internal consumption (%)	62.6	64.8	57.4
average price (lei/MWh)	160.67	170.09	164.66
1.2. Sales on negotiated contracts*			
traded volume (GWh)	3174***	3012***	2786
% from internal consumption (%)	74.0	69.01	60.9
average price (lei/MWh)	162.43	155.72	161.79
2. EXPORT			
traded volume** (GWh)	179	198	414
% from internal consumption (%)	4.2	4.5	9.0
average price (lei/MWh)	176.45	165.24	192.74****

3. CENTRALISED MARKETS OF CONTRACTS			
traded volume (GWh)	489	520	658
% from internal consumption (%)	11.4	11.9	14.4
average price (lei/MWh)	191.87	191.27	177.75
4. DAY AHEAD MARKET			
traded volume (GWh)	489	460	425
% from internal consumption (%)	11.4	20.6	9.3
average price (lei/MWh)	196.13	121.24	227.38
5. BALANCING MARKET			
traded volume (GWh)	307	268	282
% from internal consumption (%)	7.2	6.1	6.2
upward volume (GWh)	213	94	203
average negative imbalance price(lei/MWh)	267.37	240.71	299.47
downward volume (GWh)	94	174	79
average positive imbalance price (lei/MWh)	39.92	35.91	58.98
INTERNAL CONSUMPTION (includes distribution and transmission losses) (GWh)	4290	4362	4579

Note: 1) Data published in the Report on monitoring results of the electricity market – November 2009 were modified due to some corrections

** 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*

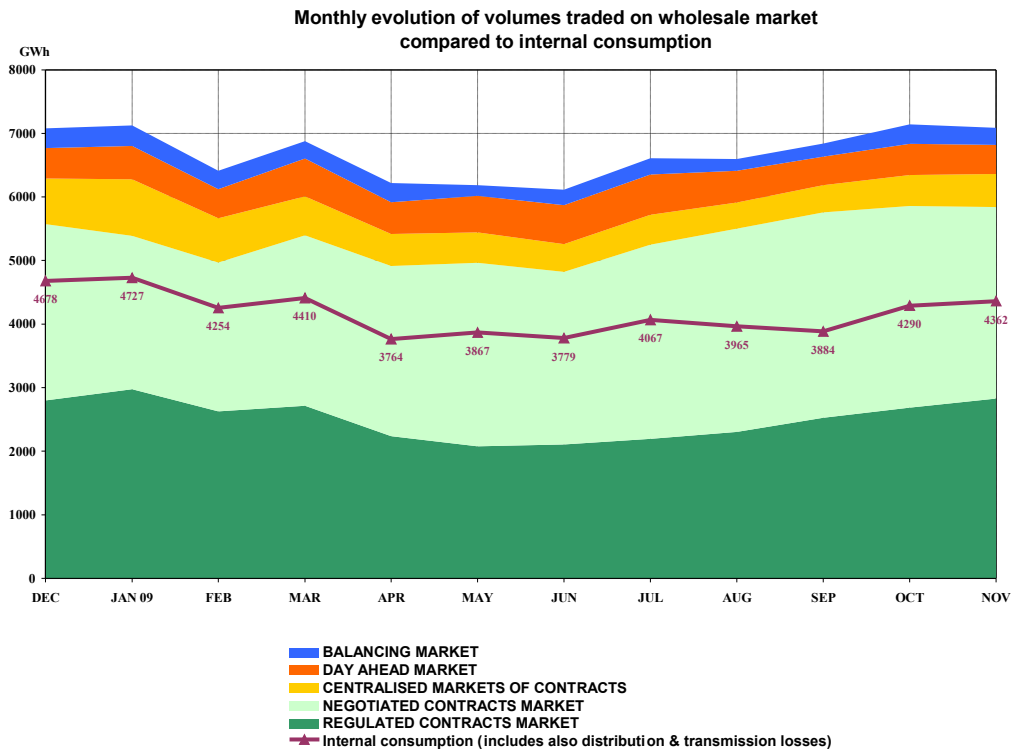
**** Volumes traded on negotiated contracts do not include the quantities resulted from the processing contracts, as this activity is neither subject of ANRE regulations nor comprised within the market participants reports*

*****Prices in November 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 percentage of electricity quantities from the internal consumption (see table from above) offers a dimensional reference for each of the specified markets.

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.

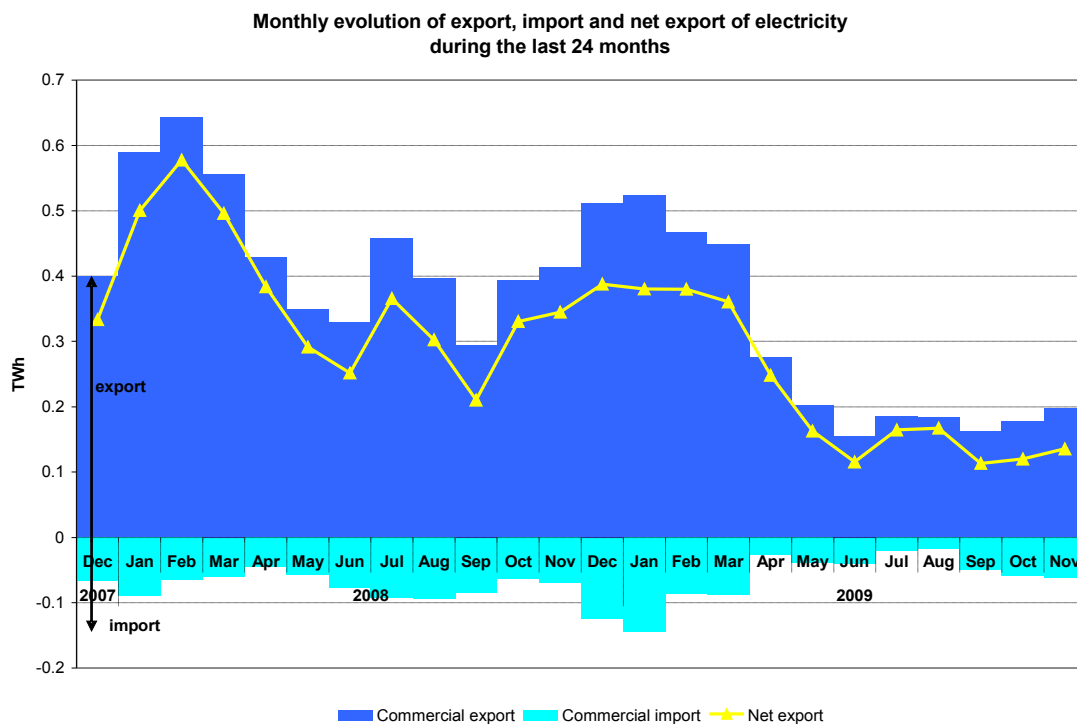
The evolution of the relation between the volumes sold on each market and the estimated internal consumption, for December 2008 – November 2009, is presented below:



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

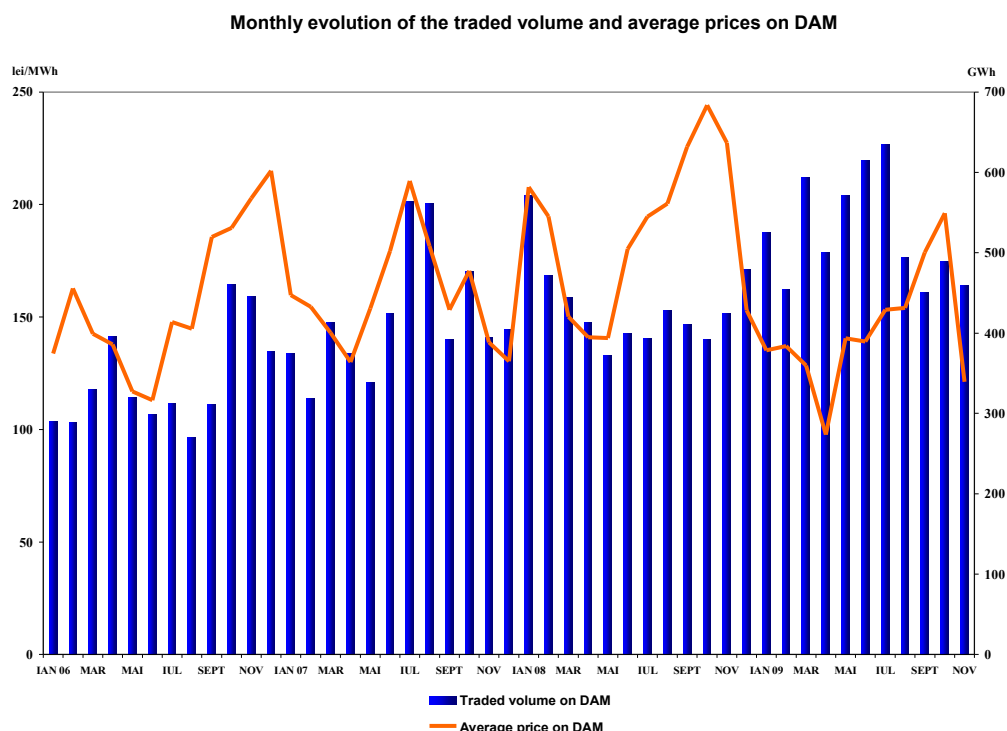
Note: In the above graph, the volumes traded on negotiated contracts’ market do not include the export trades

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.



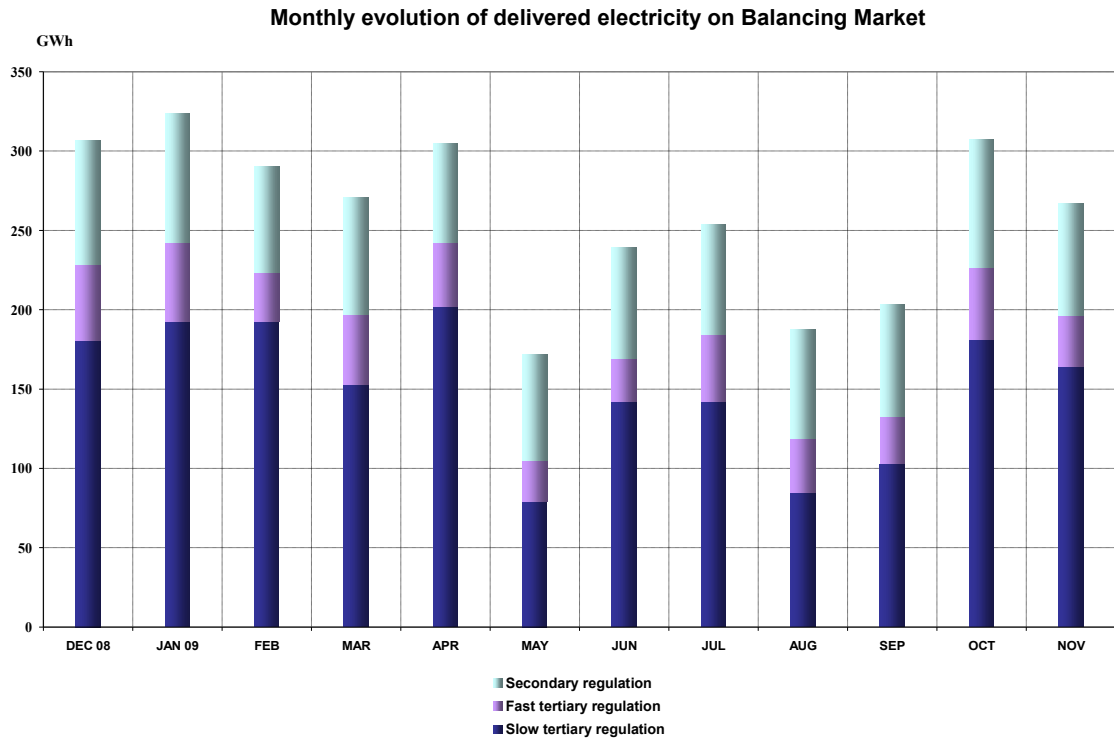
Source: Monthly reports of SC Opcom SA and CN Transelectrica SA – processed by MG

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 November 2009 is presented in the following table:

November 2009	Dispatch order (GWh)	Delivered electricity (GWh)	Deviation (%)
Secondary regulation	71	71	
<i>upward</i>	29	29	
<i>downward</i>	42	42	
Fast tertiary regulation	39	32	16
<i>upward</i>	12	11	9
<i>downward</i>	26	21	20
Slow tertiary regulation	187	164	12
<i>upward</i>	59	54	9
<i>downward</i>	128	110	14
TOTAL	297	267	
<i>upward</i>	100	94	
<i>downward</i>	197	174	
INTERNAL CONSUMPTION		4362	
<i>% share of traded volumes from internal consumption</i>		6.1%	

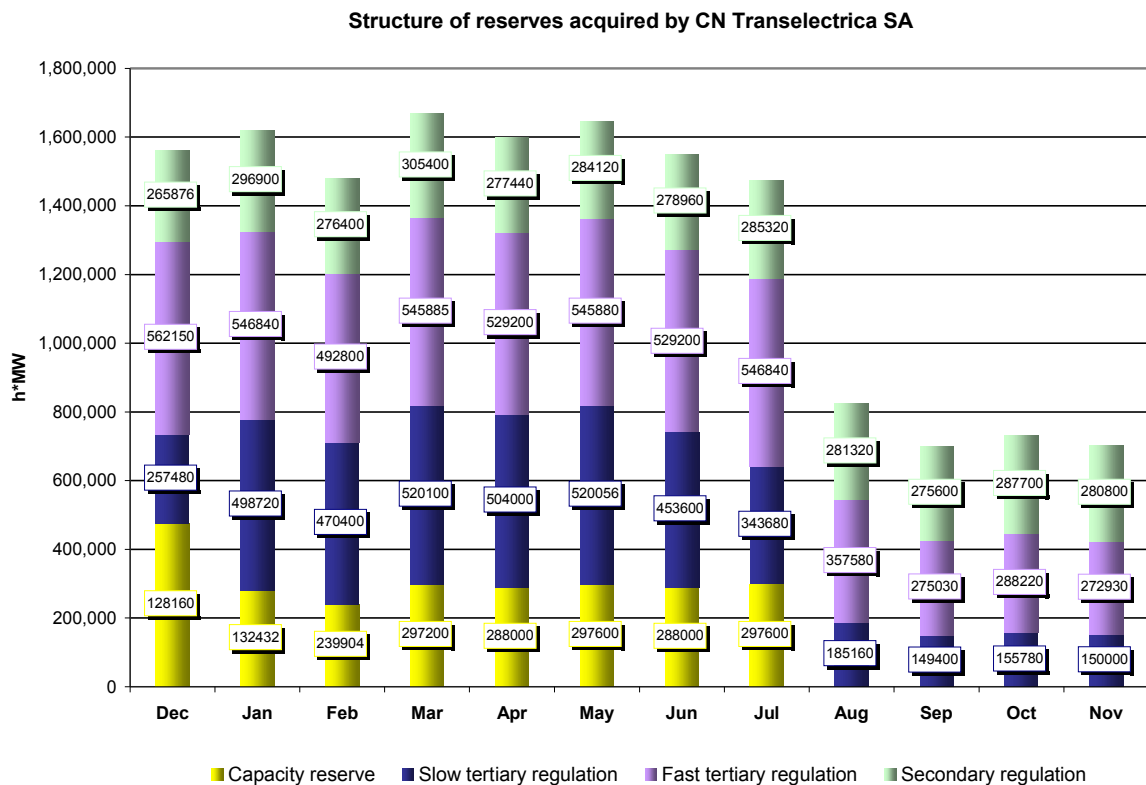
Source: Monthly reports of CN Transelectrica SA – processed by MG

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



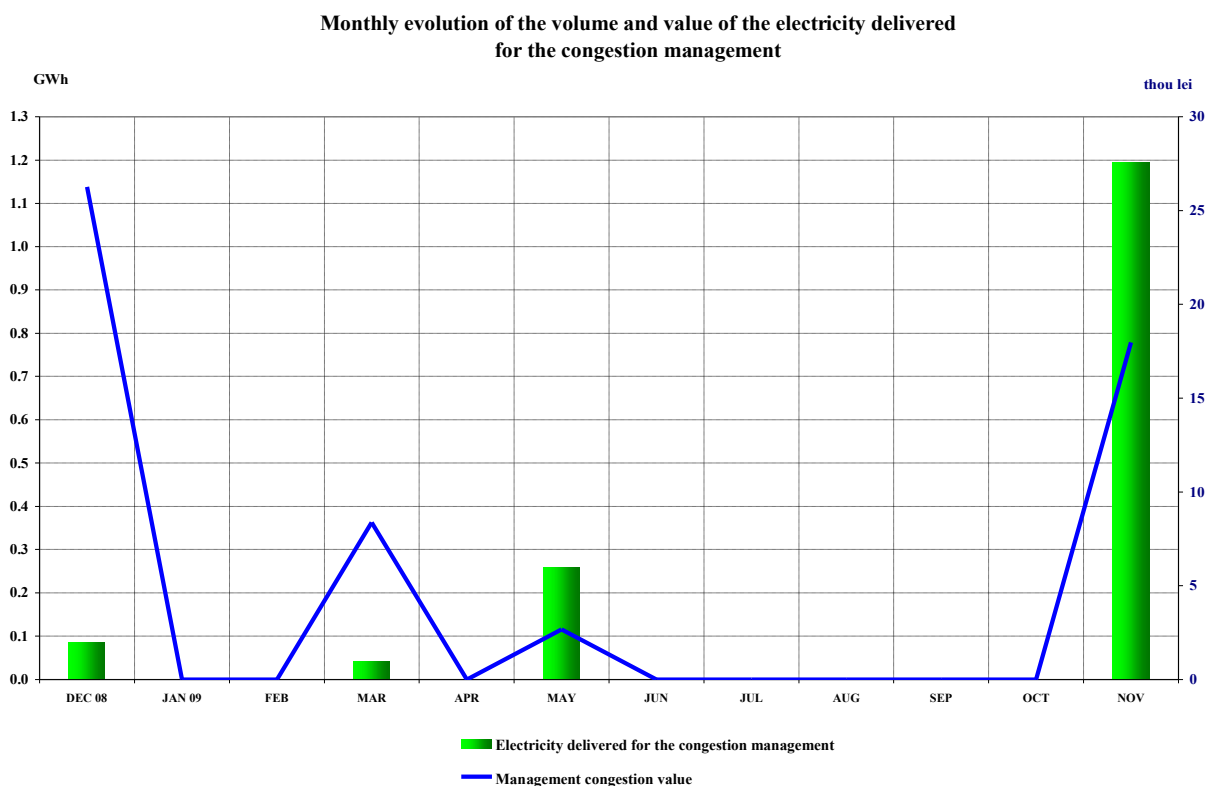
Source: Monthly reports of CN Traselectrica SA – processed by MG

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 Traselectrica SA during December 2008 – November 2009.



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

Transaction type	- GWh -		
	October 2009	November 2009	November 2008
0	1	2	3
Regulated to incumbents, thermal generators	877.27	1234.21	1232.85
Regulated to incumbents, hydro generator	238.57	232.51	167.74
Regulated to incumbents, nuclear generator	516.89	486.55	489.87
Regulated for distribution losses, thermal generators	259.50	368.80	308.92
Regulated for distribution losses, hydro generator	40.93	39.98	60.48
Regulated for distribution losses, nuclear generator	138.18	134.79	143.39
Regulated for transmission losses, thermal generator	79.80	78.80	82.97
Regulated, to other generators (with return of obligation within a year)	533.57	252.60	142.86
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	126.33	76.52	282.81
Negotiated, to suppliers	1052.17	1069.04	1151.41

Contracts concluded on centralized markets (CMBC, CMBC-NC, RCE)	488.60	520.48	658.20
Supply to consumers (regulated and competitive)	220.31	202.60	255.99
Export	112.60	94.27	124.98
DAM	233.15	145.93	147.77
Total	4917.85	4937.08	5250.23

Source: Monthly reports of generators – processed by MG

Suppliers

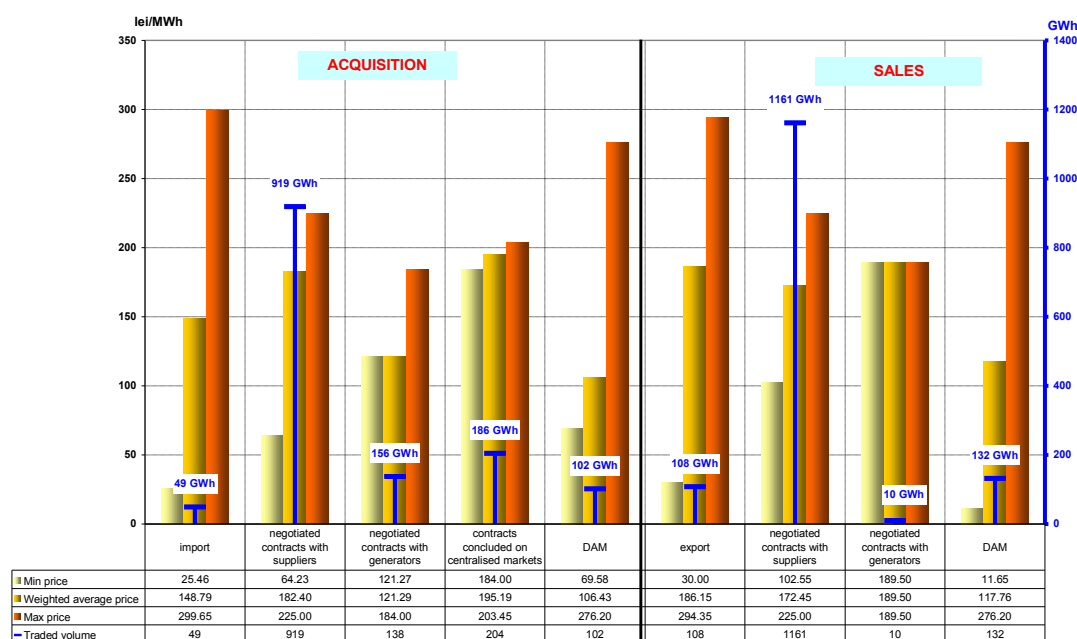
In November 2009, 69 companies having as main activity the supply of electricity concluded transactions on the electricity market; from these, 28 suppliers traded electricity exclusively on the wholesale market and 41 suppliers on both retail and wholesale markets (in this category are also included the 7 incumbent suppliers).

Suppliers acting exclusively on WEM

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

Transactions' structure of suppliers acting exclusively on WEM	- GWh -	
	November 2008	November 2009
Acquisitions		
Import	28.93	49.15
Negotiated contracts with suppliers	545.39	918.61
Negotiated contracts with generators	244.49	137.65
Contracts concluded on centralized markets	187.72	204.41
DAM	53.48	101.62
Sales		
Export	279.36	107.67
Negotiated contracts with suppliers	619.80	1161.22
Negotiated contracts with generators	31.20	9.75
DAM	128.24	131.87

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 November 2009:

Transactions concluded by suppliers acting exclusively on WEM
 - November 2009 -


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

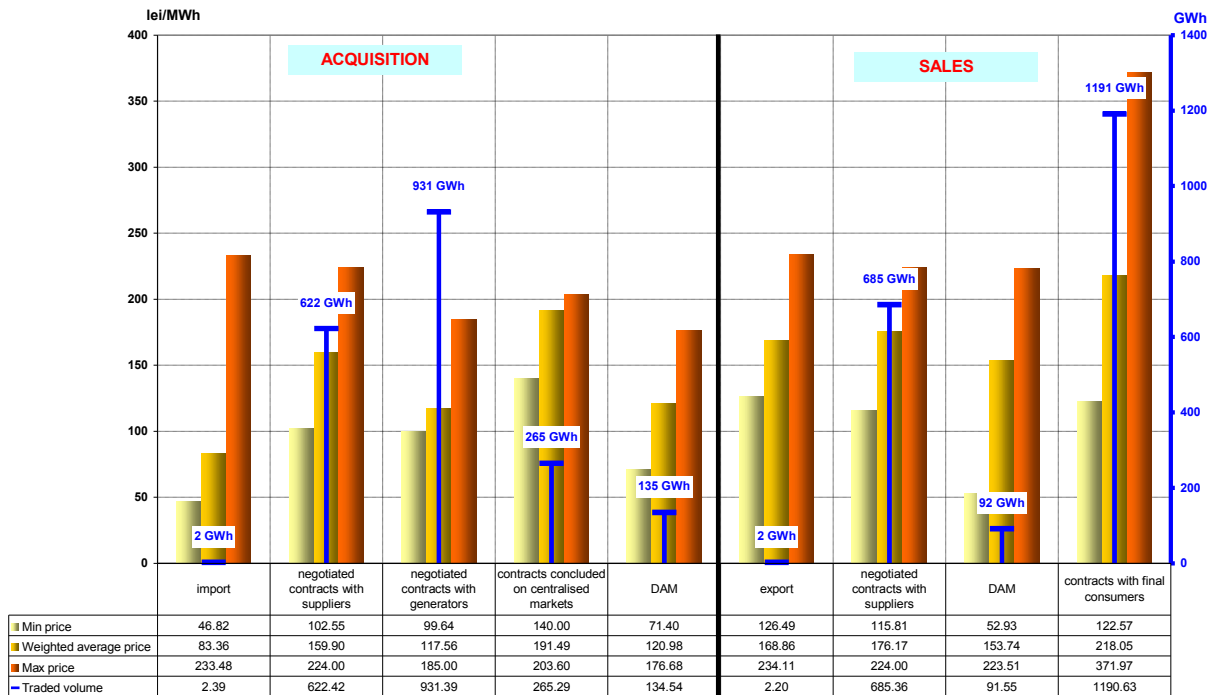
Active suppliers on REM (the incumbent suppliers are not included)

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

	- GWh -	
Transactions' structure of suppliers providing electricity to final consumers (the incumbent suppliers are not included)	November 2008	November 2009
Acquisitions		
Import	0.00	2.39
Negotiated contracts with suppliers	599.46	622.42
Negotiated contracts with generators	887.65	931.39
Contracts concluded on centralized markets	419.43	265.29
DAM	53.67	134.54
Sales		
Export	9.74	2.20
Negotiated contracts with suppliers	647.21	685.36
DAM	119.27	91.55
Final consumers	1187.50	1190.63

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 November 2009:

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



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

Incumbent suppliers

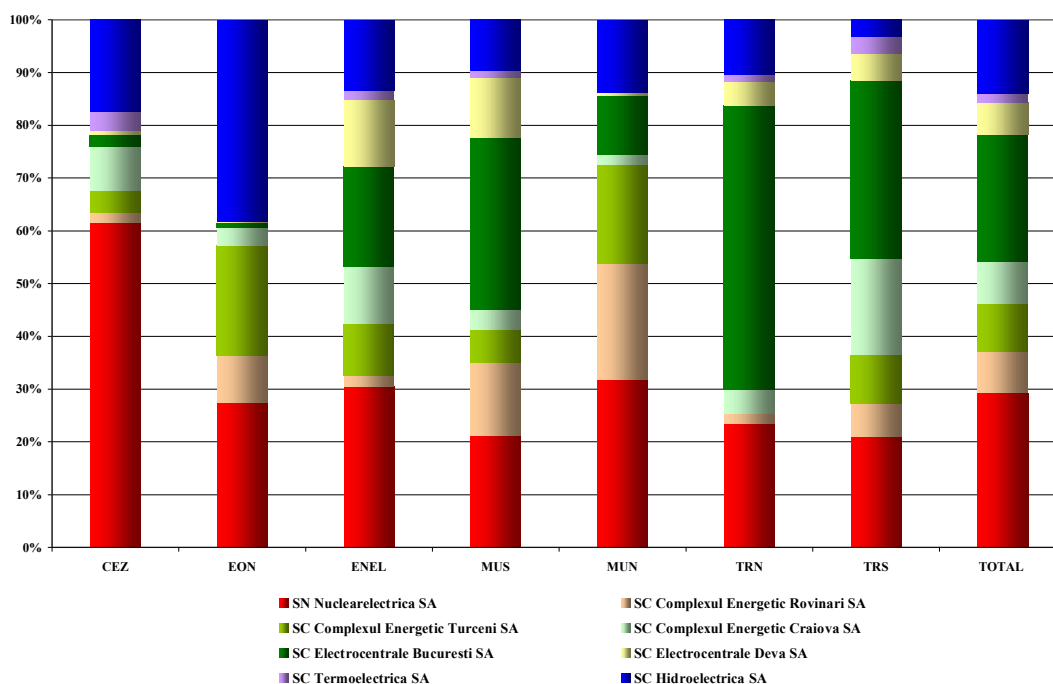
Electricity acquisition structure of incumbent suppliers (before the delivery day), for supplying the regulated market consumers, is presented in the table below, for November 2009 compared to the situation of November 2008:

- GWh -

Acquisition structure of incumbent suppliers for regulated REM component	November 2008	November 2009
Regulated contracts with generators	1926.90	2011.97
Negotiated contracts	8.05	26.75
DAM	57.05	44.49

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

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



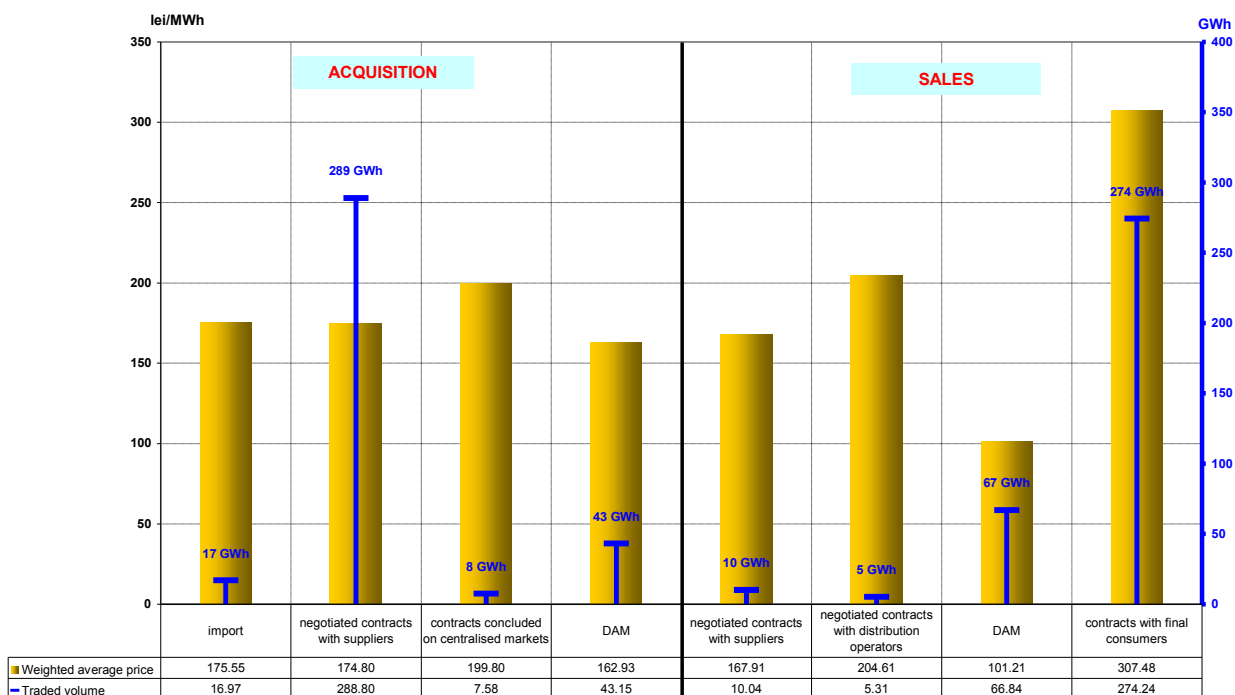
Source: Monthly reports of the incumbent suppliers – processed by MG

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

	- GWh -	
Transactions' structure of incumbent suppliers for competitive REM component	November 2008	November 2009
Acquisitions		
Import	39.88	16.97
Negotiated contracts with suppliers	163.62	288.80
Negotiated contracts with generators	19.20	0.00
Contracts concluded on centralized markets	50.40	7.58
DAM	87.80	43.15
Sales		
Negotiated contracts with suppliers	49.51	10.04
Negotiated contracts with distributors	-	5.31
DAM	24.80	66.84
Final consumers	299.53	274.24

The structure by types of sources/destinations of the traded volumes combined with the actual average prices of the incumbent suppliers corresponding to the competitive segment of REM is presented in the following graph for November 2009:

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



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

Main distribution operators

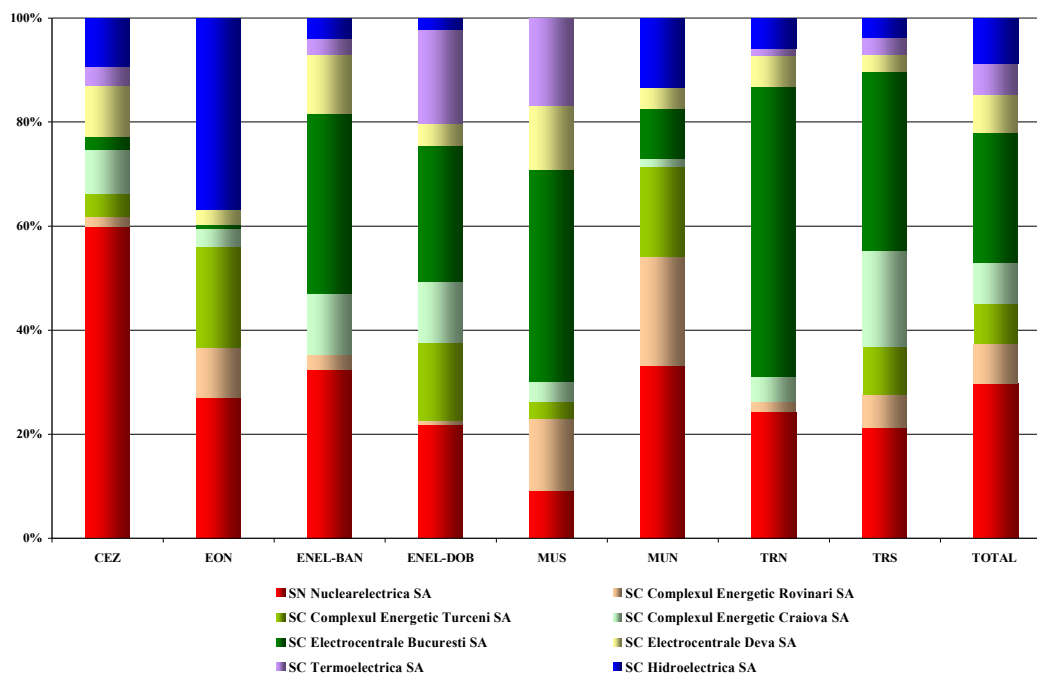
The following table shows the electricity acquisition structure of main distribution operators (before the delivery day), for covering the distribution network losses, for November 2009 compared to November 2008:

- GWh -

Acquisition structure	November 2008	November 2009
Regulated contracts with generators	512.80	543.57
Negotiated contracts with suppliers	4.44	5.31
DAM	146.26	109.93

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 November 2009:

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

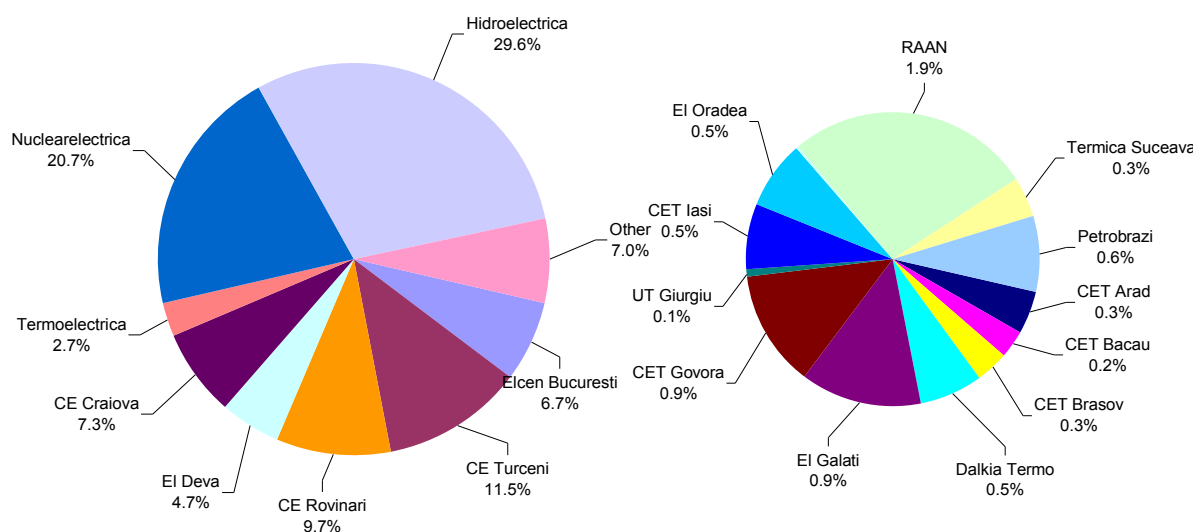
The market structure regarding the electricity generation offers an initial basis for analyzing the possible competitiveness level of the electricity market.

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

Concentration indicators - November 2009 -	C1 (%)	C3 (%)	HHI
Value	27	59	1584

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 11 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 - November 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 November 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 of BM - NOVEMBER 2009 -	Regulation					
	Secondary		Fast tertiary		Slow tertiary	
	upward	downward	upward	downward	upward	downward
C1 - % -	70	69	64	50	46	33
C3 - % -	94	93	86	79	77	83
HHI	5246	5105	4429	3113	2770	2489

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 November 2009:

Concentration indicators on ASM - November 2009 -		Secondary reserve	Fast tertiary reserve	Slow tertiary reserve	Capacity reserve
regulated component	contracted quantity (h*MW)	280800	272930	150000	0
	C1 (%)	70.6	84.7	82.8	0
	C3 (%)	91.4	92.8	100	0
competitive component	contracted quantity (h*MW)	0	0	0	0
	C1 (%)	0	0	0	0
	C3 (%)	0	0	0	0
	HHI	0	0	0	0

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.

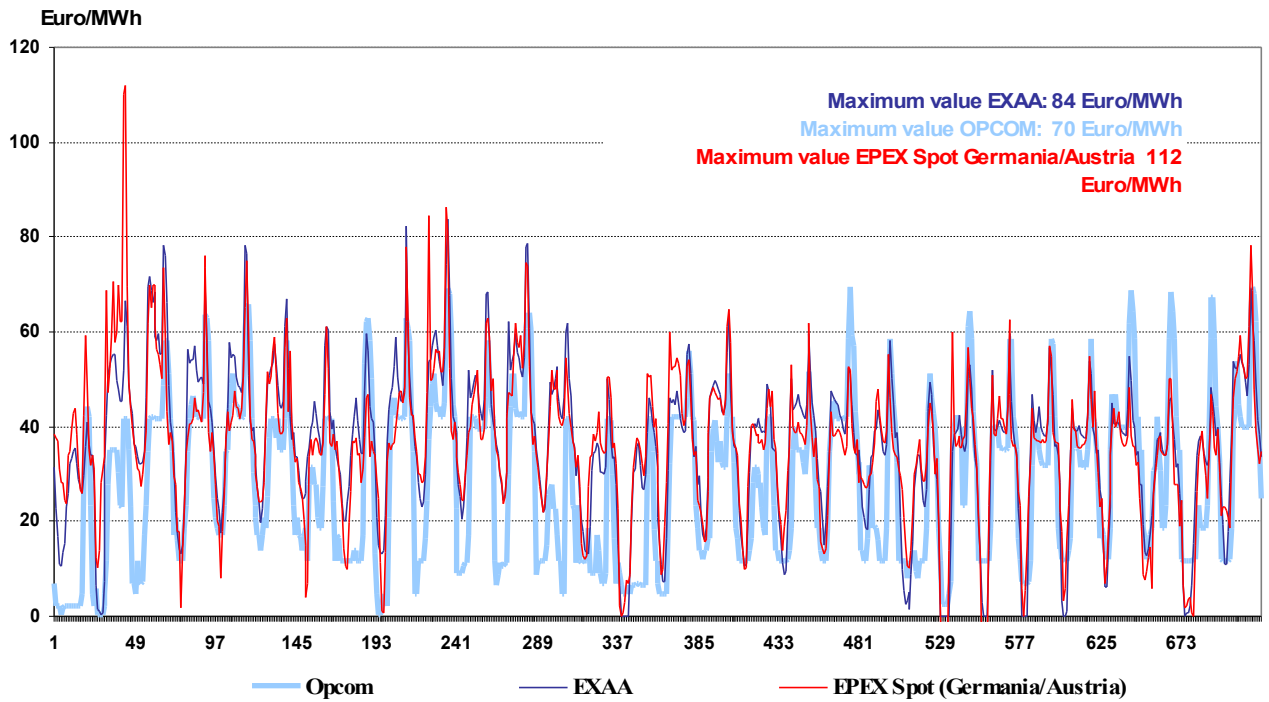
The concentration indicators on DAM reflects the level of competition between sellers and between buyers respectively, the dynamics of both influencing the price level. The following table presents C1, C3 and HHI for buying and for selling side of DAM in November 2009, based on quantities traded by participants on this market.

Concentration indicators on DAM - November 2009 -	C1 (%)	C3 (%)	HHI
Buying transactions	18	39	771
Selling transactions	8	24	483

7. Price evolution on wholesale electricity market

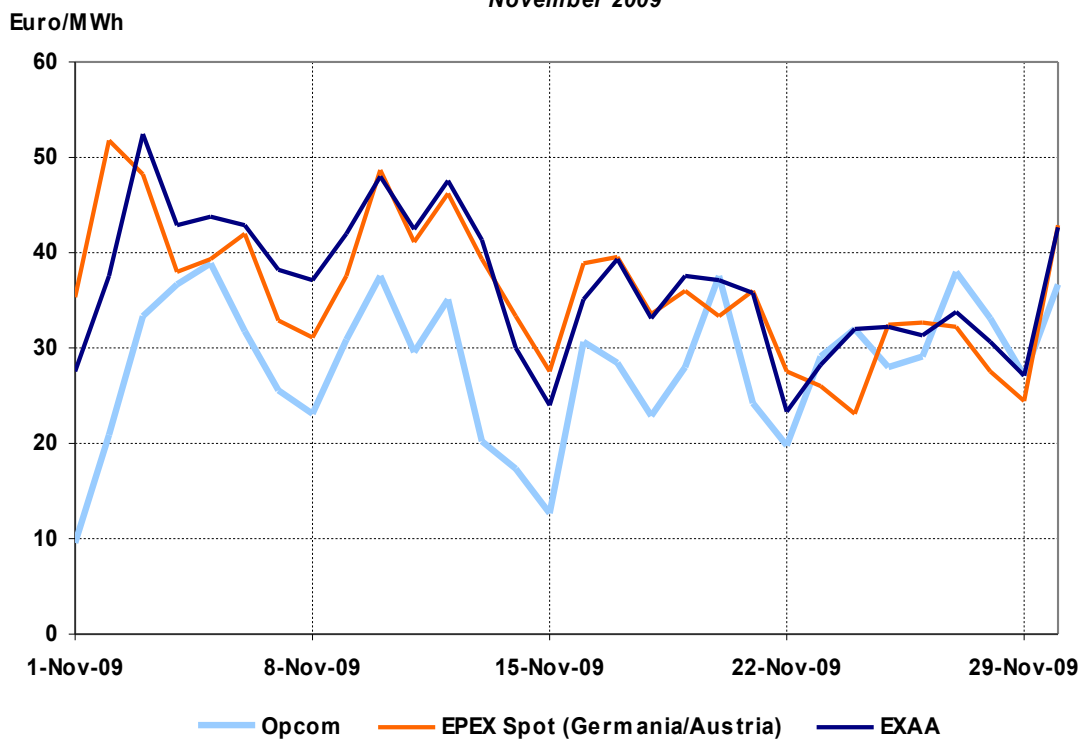
SC Opcom SA is the administrator of DAM. The MCP on DAM represents a reference value for the prices on the bilateral contracts. The evolution of hourly and daily average prices on DAM in November 2009 is presented in the following graphs, along with the prices on EEX and EXXA. For comparison with prices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



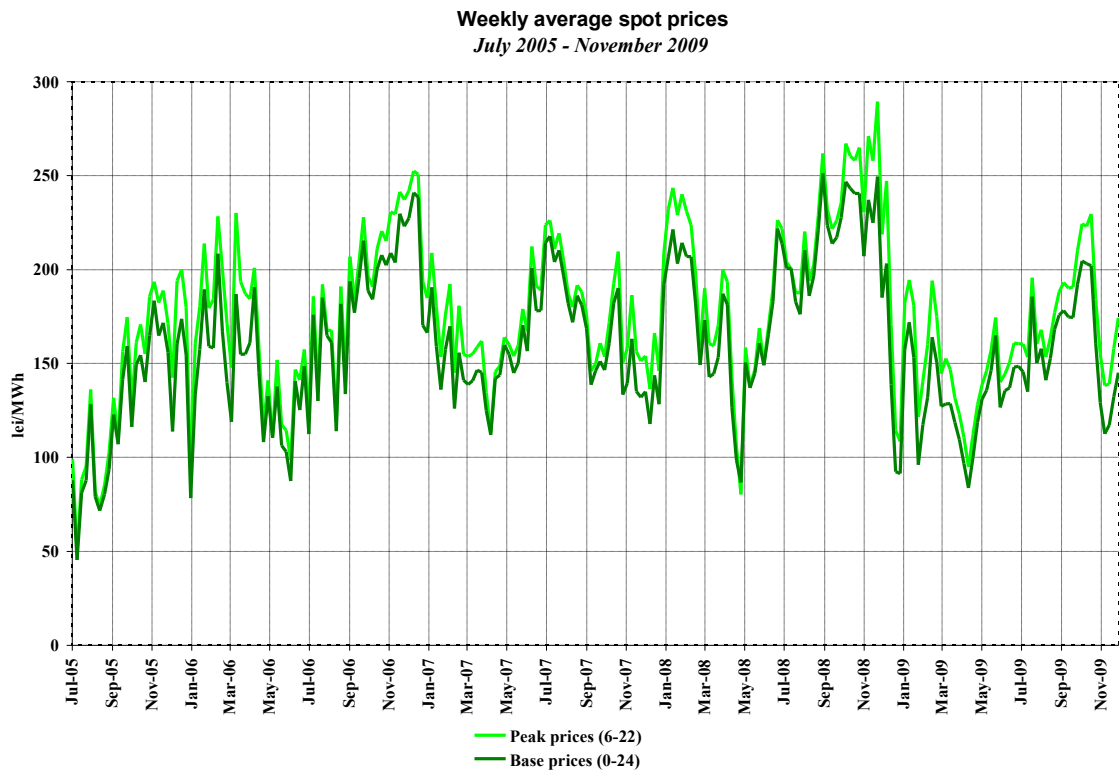
Source: Daily reports of SC Opcom SA and published data of EXAA and EEX – processed by MG

DAILY AVERAGE SPOT PRICES
November 2009



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

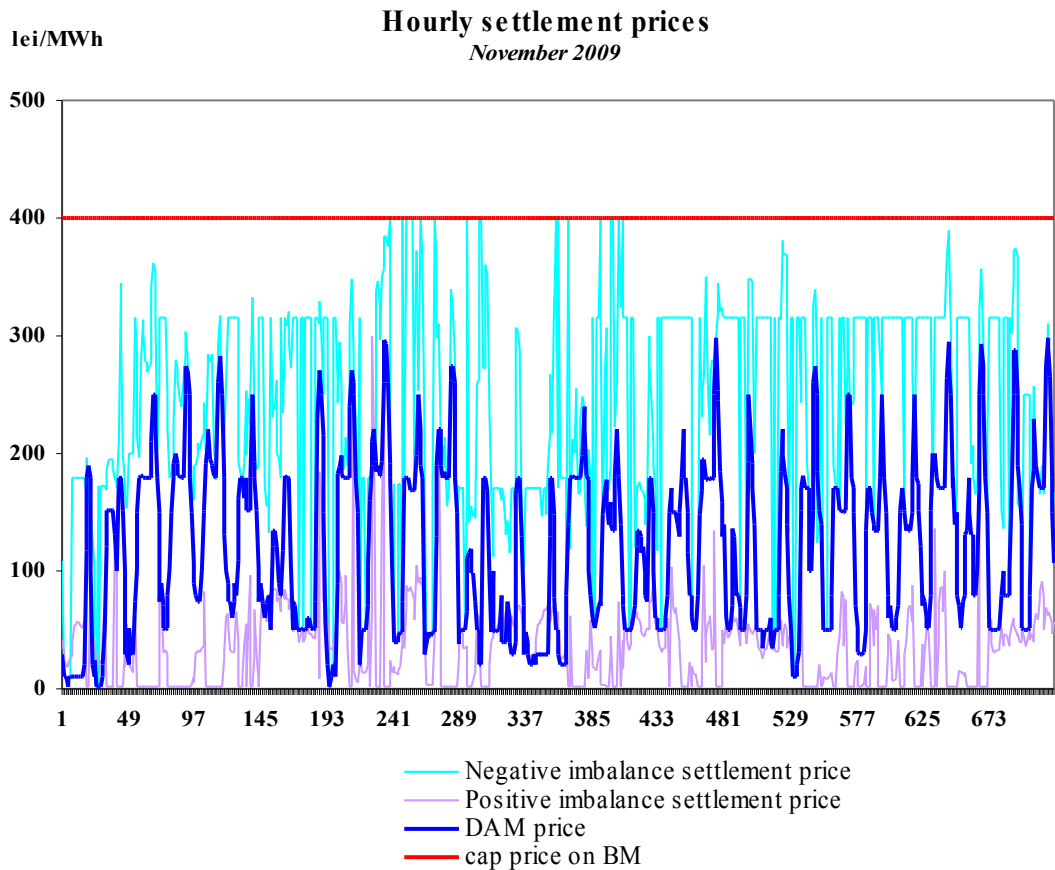
The following graph presents the evolution of weekly average spot prices starting with July 2005:



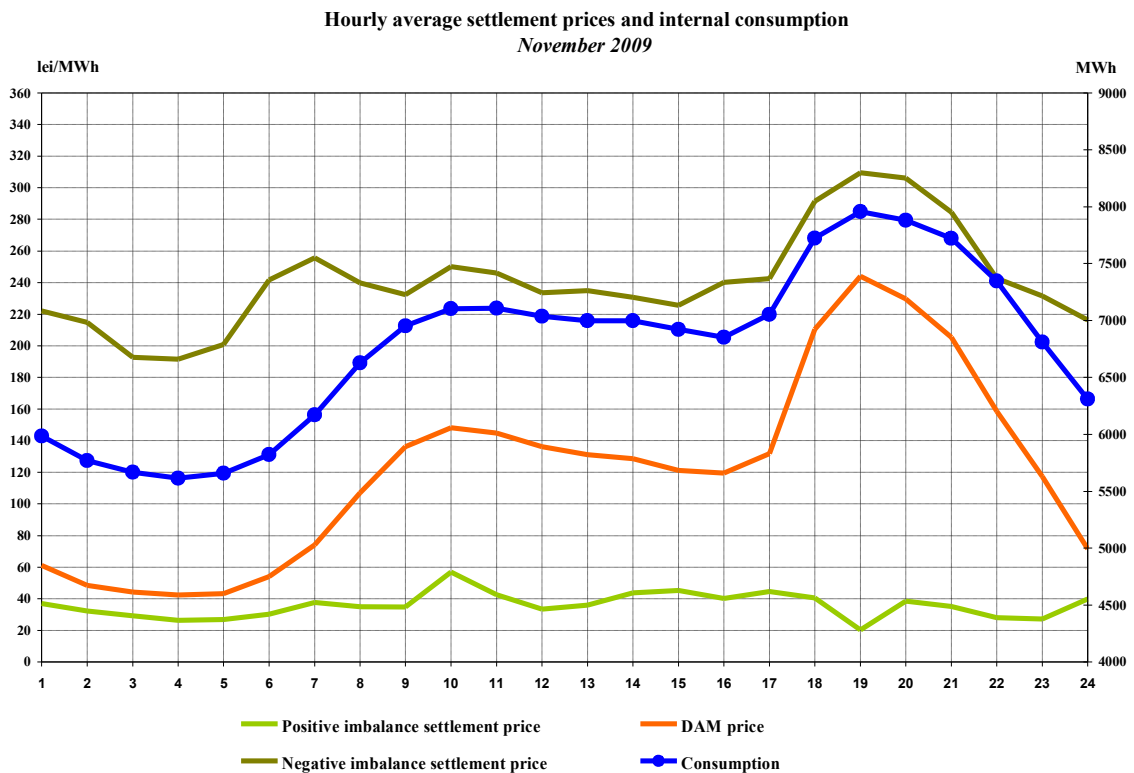
Source: Daily reports of SC Opcom SA – processed by MG

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.

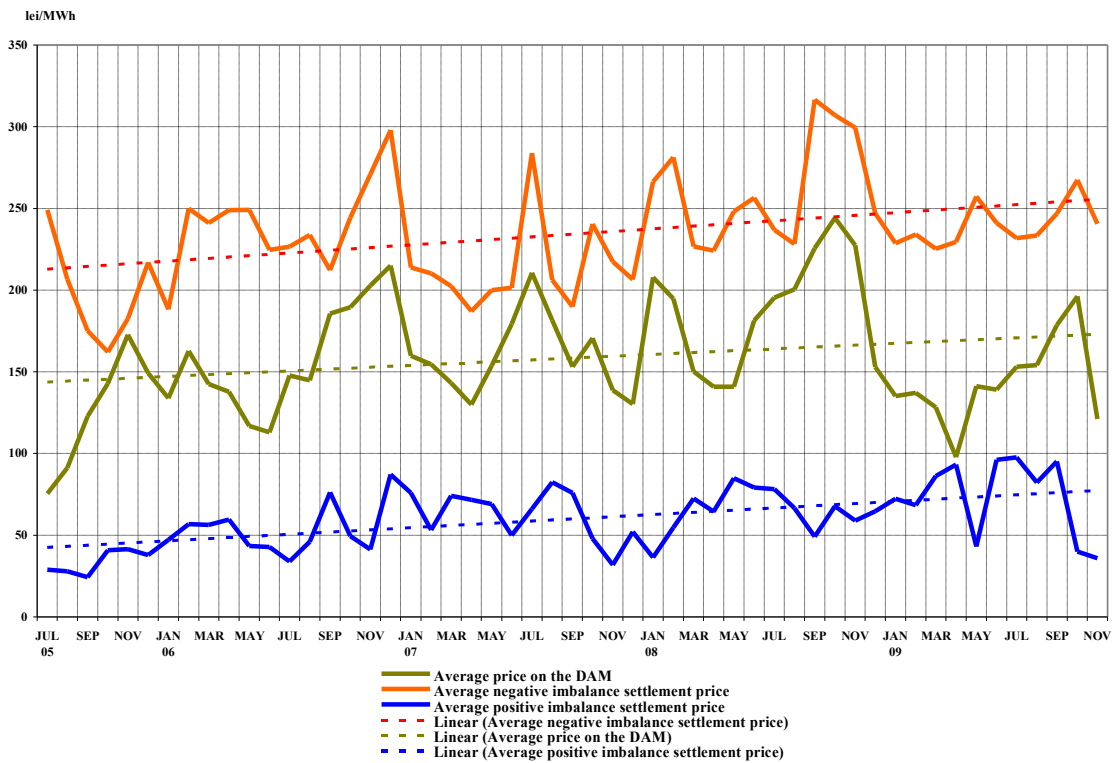


Source: Daily/monthly reports of SC Opcom SA – processed by MG



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

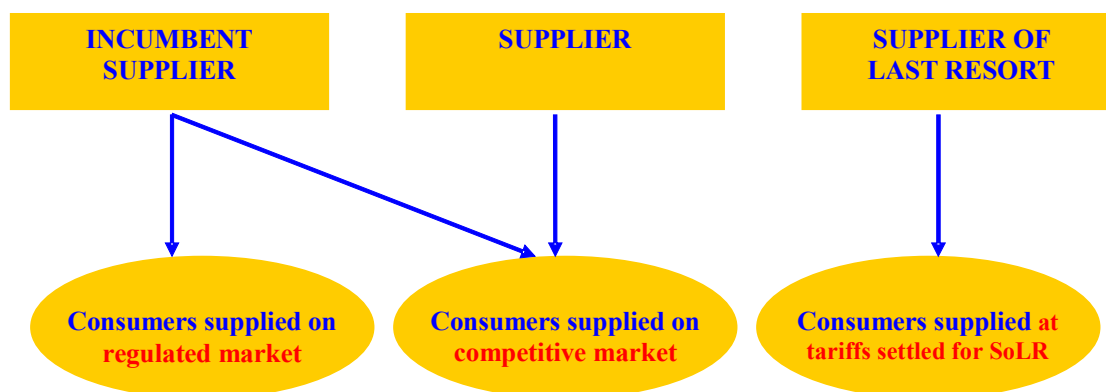
Monthly average prices on DAM and BM
July 2005 - November 2009



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

III. RETAIL ELECTRICITY MARKET

1. Structure of the retail electricity market

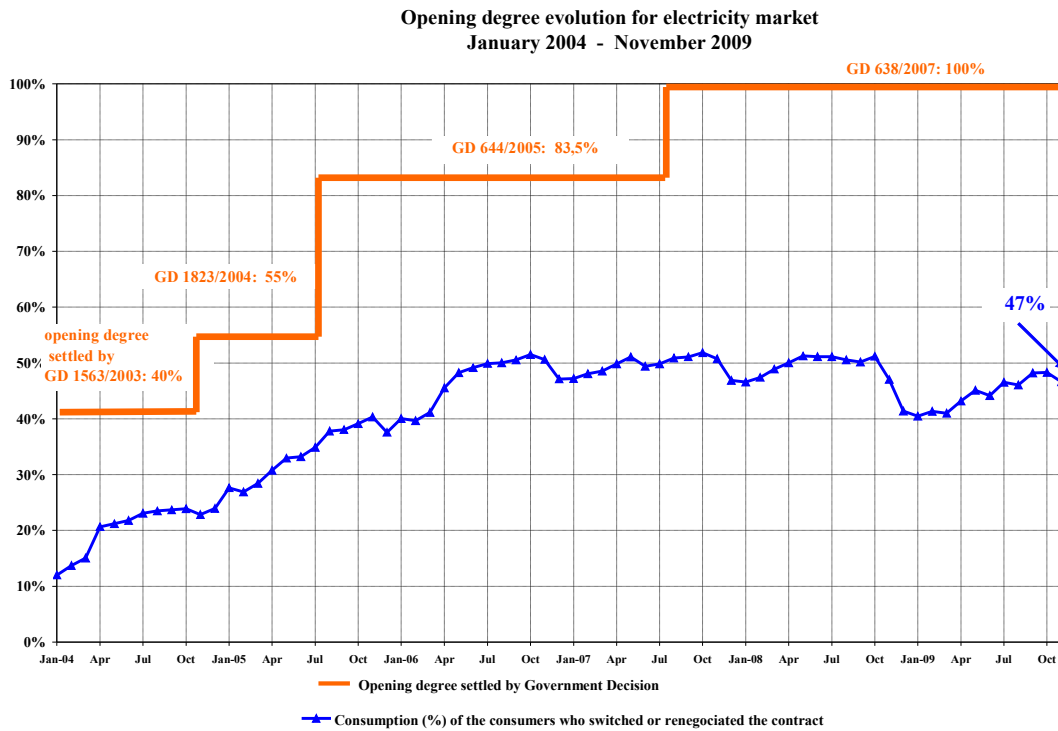


2. Steps in the opening process of the electricity market

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 – November 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

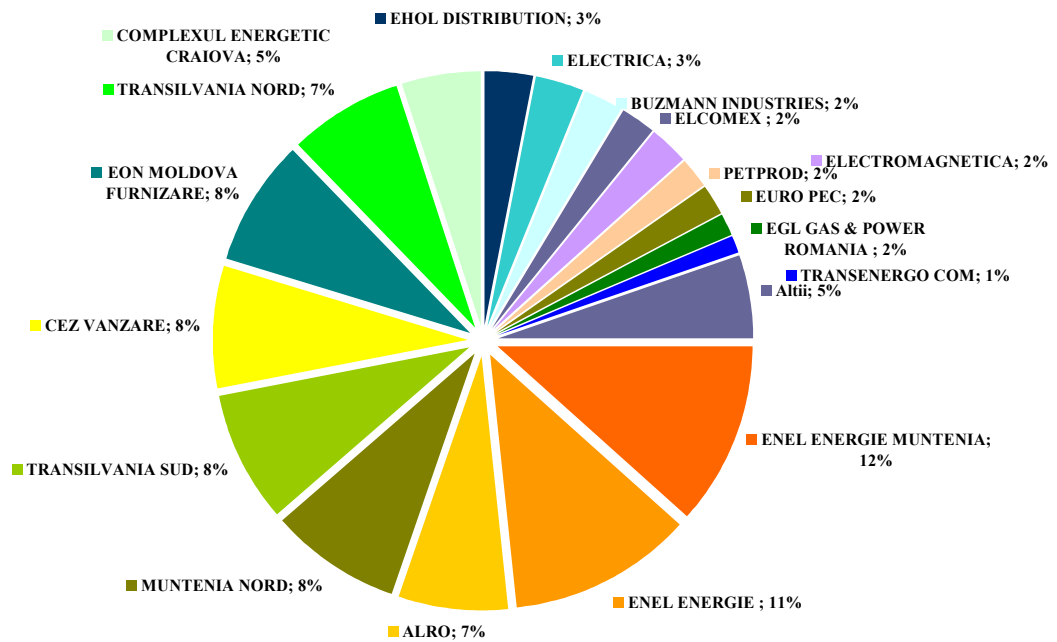
4. Market shares of the electricity suppliers

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;

Market shares of suppliers for final consumers

- January - November 2009 -



Final consumption: 37954 GWh

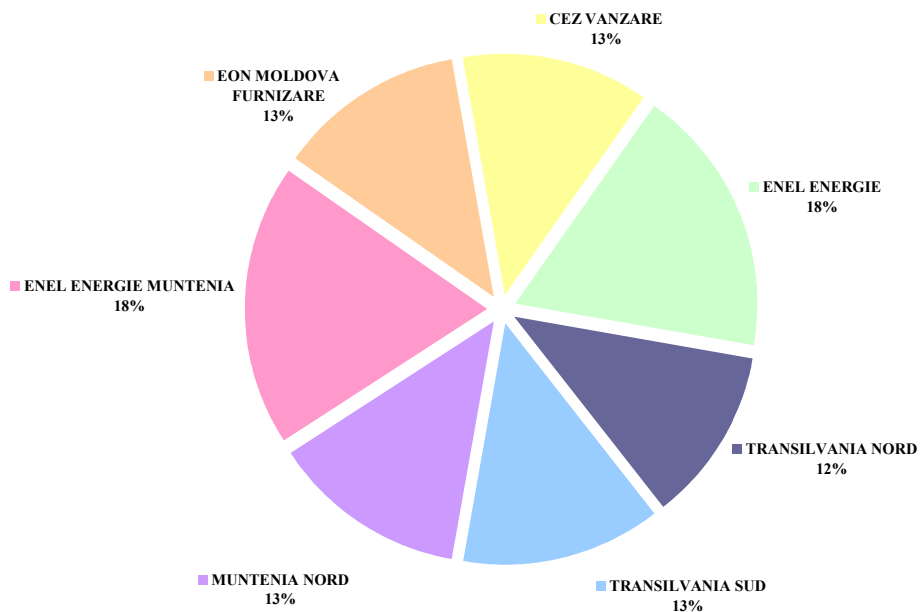
Category "Altii" includes 29 suppliers with individual market share less than 1%

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 - November 2009 -



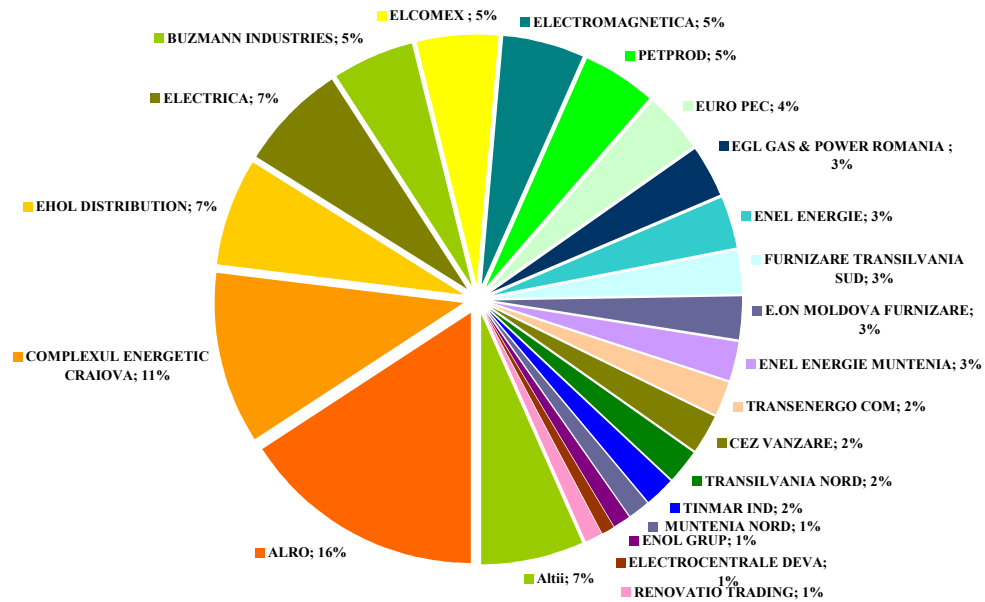
Consumption of consumers supplied at regulated tariffs: 21019 GWh

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 - November 2009 -



Consumption on competitive market: 16935 GWh

Structure indicators:

HHI - 664

C3 - 34%; C1 - 16%

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

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

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

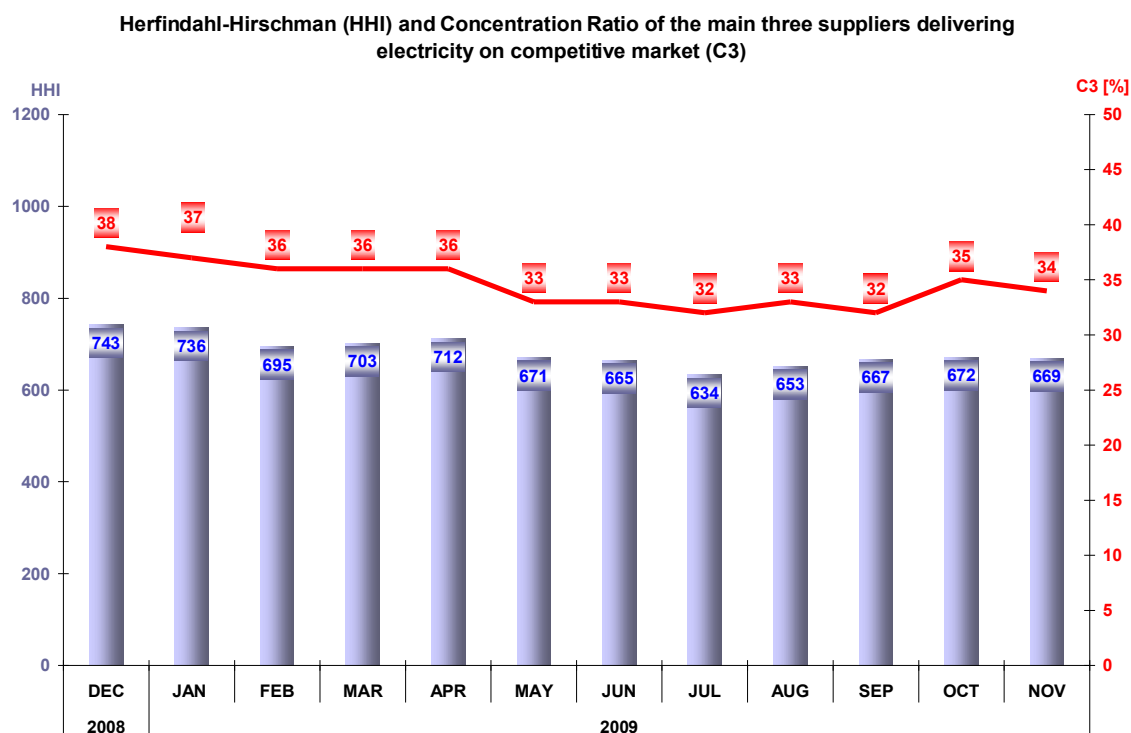
The electricity supplied to the final consumers used for calculating the market share of every supplier includes also the self-consumption of that particular supplier (e.g. consumers with supply license who buy electricity for themselves from WEM as competitive suppliers).

The analysis of the competitive suppliers' activity on the competitive REM component compared to their activity on the WEM is developed based on the weight of the electricity sold to final consumers in total electricity sales. The table below presents the number of suppliers acting on the REM, grouped into categories of sales weight during November 2009:

Number of suppliers	Share of sales to final consumers from total sales transactions			
	100%	75% - 100%	50% - 75%	<50%
Competitive	9	9	9	7
Incumbent	2	4	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 for December 2008 – November 2009 in the following graph:



Source: Monthly reports of the suppliers – processed by MG

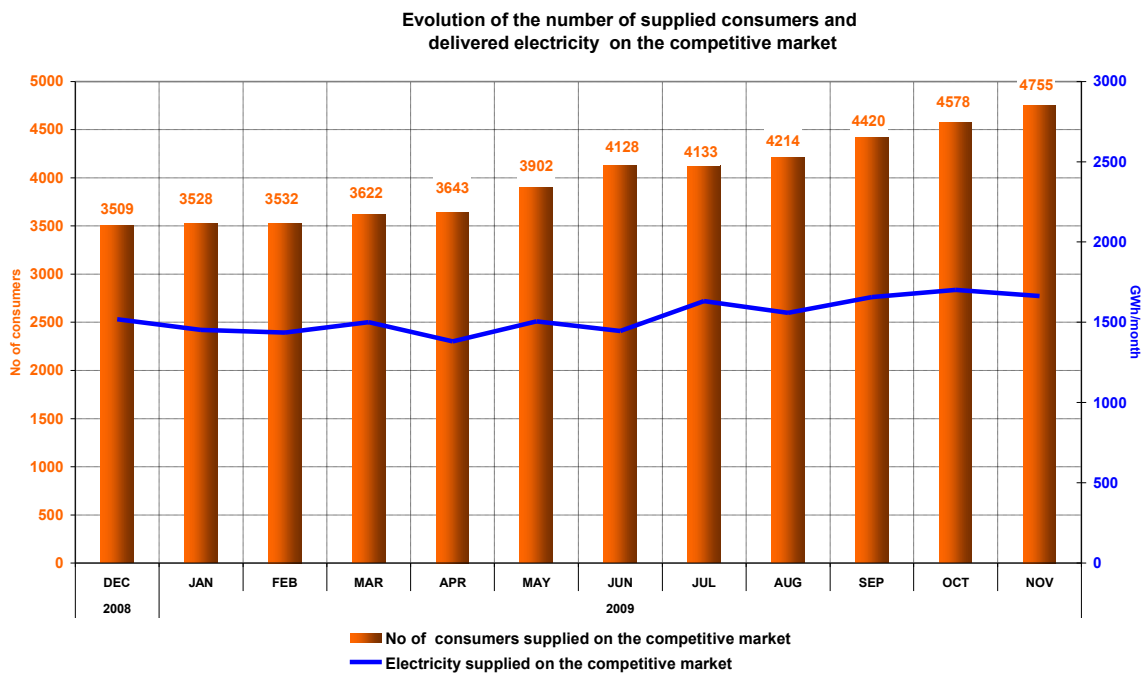
The table below shows the values of structure indicators of competitive component of REM in November 2009 and number of active suppliers, calculated for each consumer category as defined by the European Council Directive no. 90/377/EEC, modified by the Commission Decision no. 2007/394/EC:

Indicators - November 2009	Consumer category							Total REM
	IA	IB	IC	ID	IE	IF	Other	
C1 - % -	94	24	15	17	18	23	28	15
C3 - % -	99	49	38	37	43	58	61	34
HHI	8997	1190	769	766	905	1517	1602	669
Consumption - GWh -	8.5	48	101	326	188	134	858	1664
No. of SUPPLIERS	10	30	37	37	20	12	13	45
No. of incumbent suppliers	6	7	7	6	4	3	1	7
No. of competitive suppliers	3	21	27	29	15	9	9	34
No. of producers	1	2	3	2	1	0	3	4

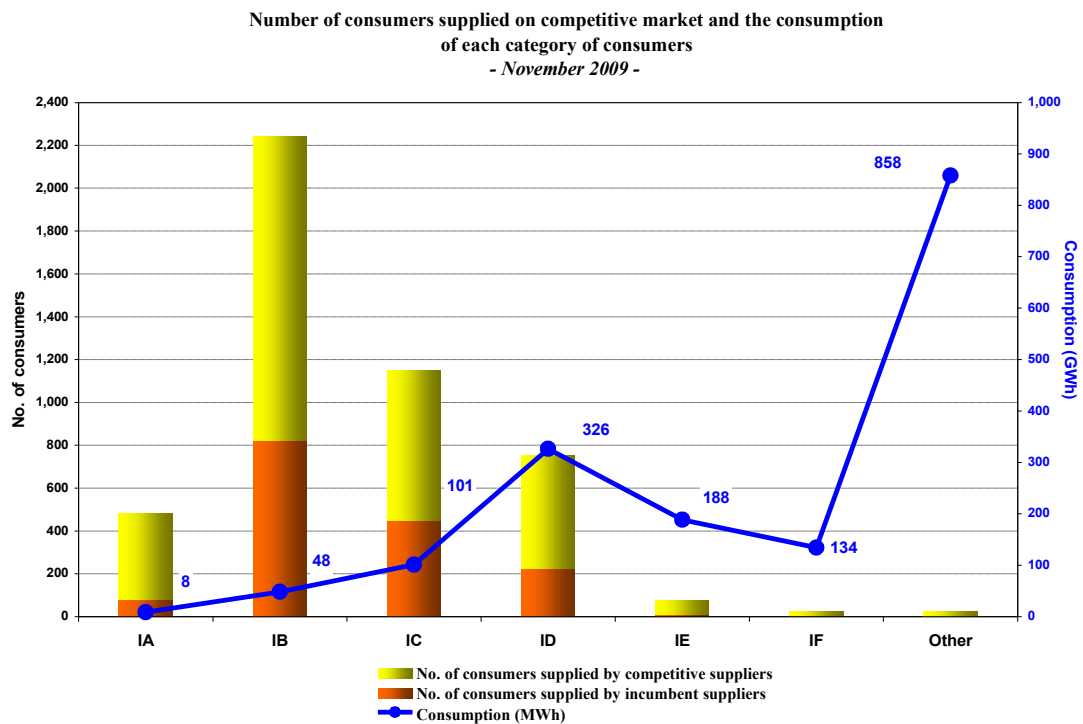
6. Evolution of consumers' number and of electricity delivered

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



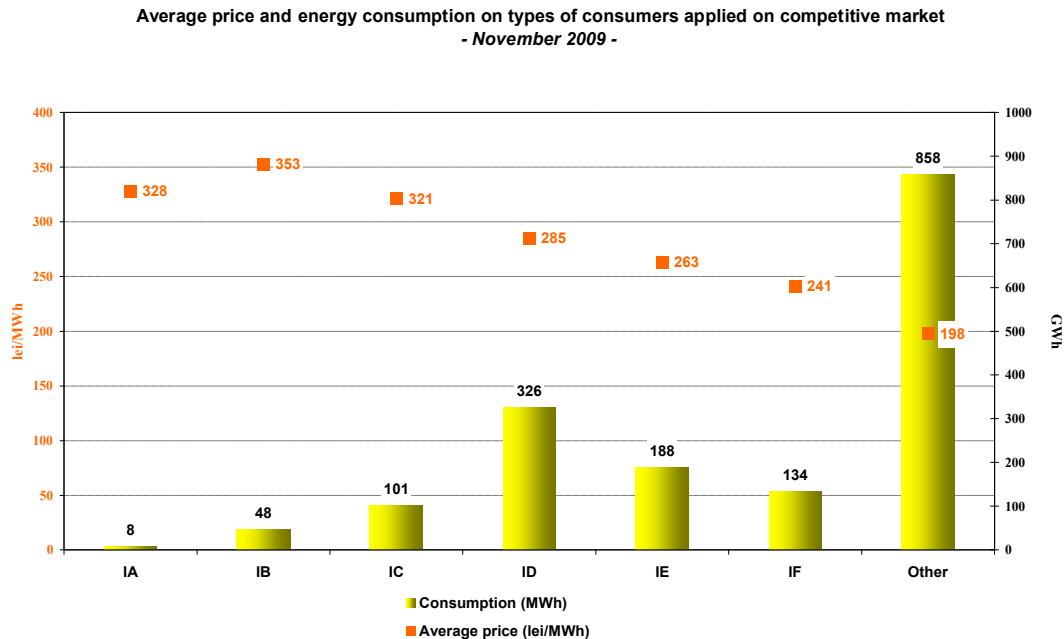
Source: Monthly reports of the competitive suppliers – processed by MG



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.



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.

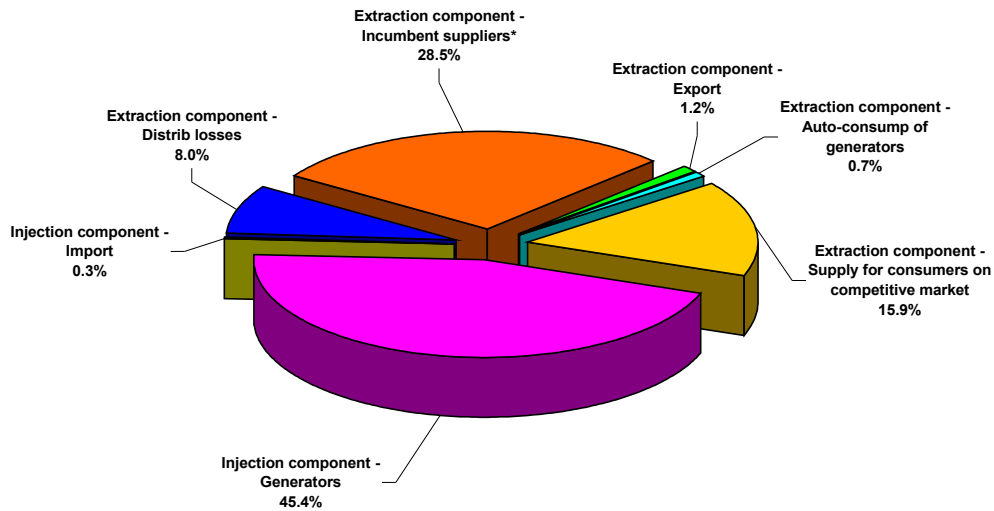
IV. TRANSMISSION AND SYSTEM OPERATOR C.N. TRANSELECTRICA S.A.

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 November 2009.

CN Transelectrica SA structure of revenues from transmission services
-November 2009 -



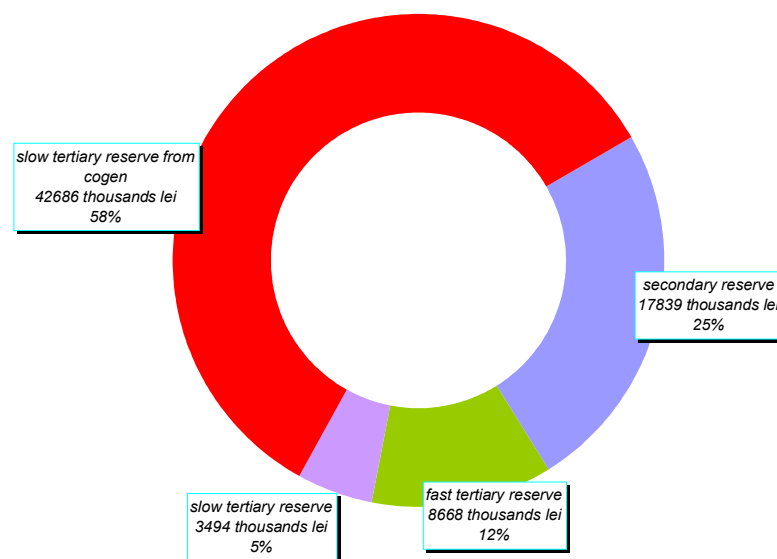
* referring to all their activity as well as the distribution losses for one distribution operator

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 November 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
- November 2009 -



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

V. EVOLUTION OF MARKET RULES IN NOVEMBER 2009

- In November 2009, a number of regulations with impact on the wholesale and retail electricity market were approved:
 1. ANRE Order no. 85/2009 for approving the *Procedure of tracking the guarantees of origin of the electricity produced from high efficiency cogeneration starting from their issuing to their capitalization moment*; the *Procedure* specifies the activities to be accomplished and the data to be sent in order to follow the track of guarantees of origin. It also establishes the operations to be performed into the unique Register of guarantees of origin;
 2. ANRE Order no. 87/2009 for approving the *Methodology of establishing the quantity of electricity produced in high efficiency cogeneration in order to be certified through guarantees of origin*; the *Methodology* stipulates the obligations which generators of electricity and heat from cogeneration have in order to register their cogeneration configurations and to obtain the correspondent guarantees of origin. The *Methodology* also establishes the self-assessment procedure aiming to certify if a configuration/generation unit is high efficiency cogeneration.
 3. Government Decision no. 1215/2009 regarding the criteria and conditions for implementing the support scheme on the promotion of high efficiency cogeneration based on the useful heat demand. According to this primary regulation, ANRE approves by order of the president the value of the bonuses granted for each year and the prices for heat produced and delivered from high efficiency cogeneration.

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