

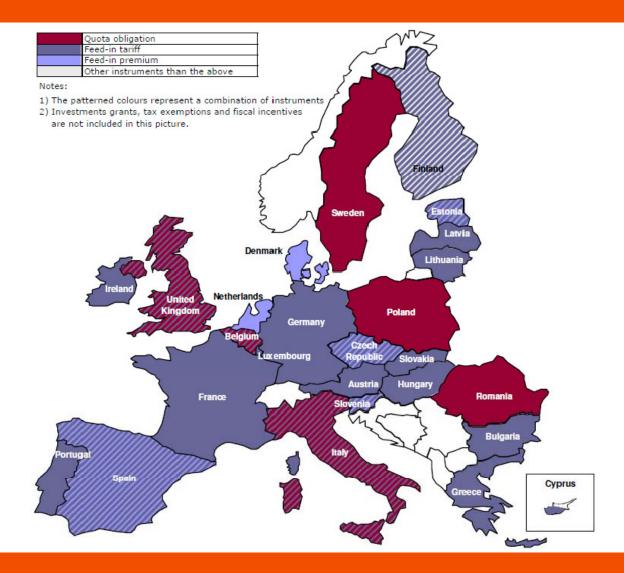


RENEWABLE ENERGY: PROGRESSING TOWARDS 2020 **TARGETS - SUPPORTING SCHEMES**

	AT	BE	BG	СҮ	cz	DE	DK	EE	ES	FI	FR	GR	HU	Œ	IT	LT	LU	LV	МТ	NL	PL	PT	RO	SE	SI	SK	UK
FIT	x	x	x	x	x	x		x	x		X	x	x	x	x	x	x	x	x			x			x	x	x
Premium					x		x	x	x											x					x		
Quota obligation		x													x						x		x	x			x
Investment grants		x		x	x					x		x	x			x	x	x	x								
Tax exemptions		x							x	x		x						x		x	x			x		x	x
Fiscal incentives			x			x		x											x	x	x				x		



RENEWABLE ENERGY: PROGRESSING TOWARDS 2020 TARGETS - SUPPORTING SCHEMES



Source:

Financing Renewable Energy in the European Energy Market, Report to EC, January 2011



EUROPEAN WIND ENERGY ASSOCIATION ESTIMATION FOR 2020

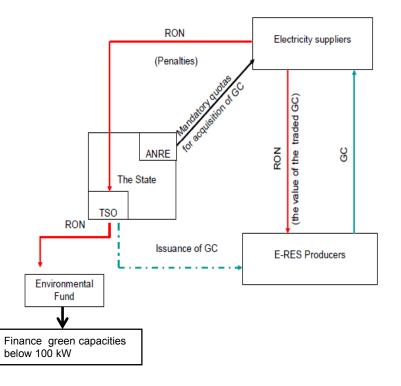
Country	MW installed end 2010			MW ins	talled end 2 Baseline	2020:	MW ins	stalled end 2 High	2020:	Average annual MW Baseline (2011-2020)	Average annual MW High (2011-2020)
	Onshore	Offshore	Total	Onshore	опсисто	Total	Onshore	Опѕпоге	Total		
Austria	1,011	0	1,011	3,500	0	3,500	4,000	0	4,000	249	299
Belgium	716	195	911	2,100	1,800	3,900	2,500	2,000	4,500	299	359
Bulgaria	375	0	375	3,000	0	3,000	3,500	0	3,500	263	313
Cyprus	82	0	82	300	0	300	500	0	500	22	42
Czech Republic	215	0	215	1,600	0	1,600	1,800	0	1,800	139	159
Denmark	2,944	854	3,798	3,700	2,300	6,000	4,000	2,500	6,500	220	270
Estonia	149	0	149	500	О	500	500	100	600	35	45
Finland	171	26	197	1,500	400	1,900	2,000	1,000	3,000	170	280
France	5,660	0	5,660	19,000	4,000	23,000	20,000	6,000	26,000	1,734	2,034
Gormany	27,122	92	27,214	41,000	8,000	49,00C	42,000	10,000	62,000	2,170	2,470
Greece	1,208	0	1,208	6,500	О	6,500	8,300	200	8,500	529	729
Hungary	295	0	295	900	О	900	1,200	0	1,200	60	90
Ireland	1,403	25	1,428	5,000	1,000	6,000	6,000	1,000	7,000	457	557
Italy	5,797	0	5,797	15,000	500	15,500	17,000	1,000	18,000	970	1,220
Latvia	31	0	31	200	0	200	200	100	300	17	27
Lithuania	154	0	154	1,000	0	1,000	1,000	100	1,100	85	Ω5
Luxembourg	42	O	42	300	U	300	700	U	700	26	66
Malta	0	О	О	100	О	100	200	0	200	10	20
Nothorlands	1,998	247	2,245	5,000	4,500	9,500	5,400	6,000	11,400	726	916
Poland	1,107	O	1,107	10,000	500	10,500	12,000	500	12,500	939	1,139
Portugal	3,898	0	3,898	7,500	0	7,500	9,000	0	9,000	360	510
Romania	462	O	462	3,000	Ω	3,000	3,500	O	3,500	254	304
Slovakia	3	0	3	800	O	800	1,000	0	1,000	เลก	100
Slovenia	0.03	0	0.03	500	0	50C	700	0	700	50	70
Span	20,676	0	20,676	39,000	1,000	40,000	41,000	1,500	42,500	1,932	2,182
Sweden	1,999	164	2,163	6,000	3,000	9,000	8,000	3,000	11,000	684	884
UK	3,863	1,341	5,204	13,000	13,000	26,000	14,000	20,000	34,000	2,080	2,880
FIL27	81,380	2,944	84,324	190,000	40,000	230,000	210,000	55,000	265,000	14,568	18,068



Romanian supporting mechanism for renewables

- The supporting system for electricity from renewable energy sources (E-RES) has been defined for Romania beginning with 2007 as mandatory quota combined with a system of green certificates (GC) trading;
- Eligible are producers generating energy from:
 - Wind energy, Solar energy, Geothermal energy, Biomass, Waves energy,
 - Hydro power plants less than 10 MW, commissioned or rehabilitated starting 2004
- Each supplier has a given percentage (a mandatory quota) obligation for green certificates and can comply with its quota obligation by purchasing green certificates on the green certificates market (bilateral contracts at negotiated prices and/or monthly centralized market of green certificates).
- Related electricity can be sold by bilateral contracts at regulated prices (only for producers less than 1 MW), or free at negotiated price
- The certificates are issued monthly by the TSO
- OPCOM administrates trading and certificates ownership at the end of the period
- The bids for GC are honoured once per month; the clearing price applies for all the participants.

Figure 1: Functioning of green certificates system





GREEN CERTIFICATES STORY

ACHIEVEMENTS

- 2008 law 220 to grant 2 GC per MWh generated by wind parks;
- 2010 law 139 to extend period of receiving 2 GC/MWh from until 2015 to end of 2017;
- 12.10. Emergency Ordinance (EO) approved 2GC with price according to the amended law 220/2008 (55EUR + inflation)
- 20.10. ANRE approved Accreditation regulation and sent it to Official Gazette for publication
- 01.11. Accreditation regulation was published in the Official Gazette
- 18.11. Individual ANRE accreditation decisions approved for:
 - Fantanele Est (62,5 MW) accredited for 15 years (minus already working months)
 - Fantanele Vest (237,5 MW) accredited for 24 months to receive normal supporting scheme (2 GC/MWh), with the obligation to individually notify within next 3 months
- 25.11. Transelectrica's procedures linked to accreditation and GC are approved
- 2nd GC is granted starting November production to Fantanele and from December to TMK Hydro)
- 16.02.2012 Individual notification for Fantanele Vest (262.5 MW) submitted to Romanian authorities
- 18.05.2012 Individual notification for Fantanele Vest submitted by Ro authorities to DG COM

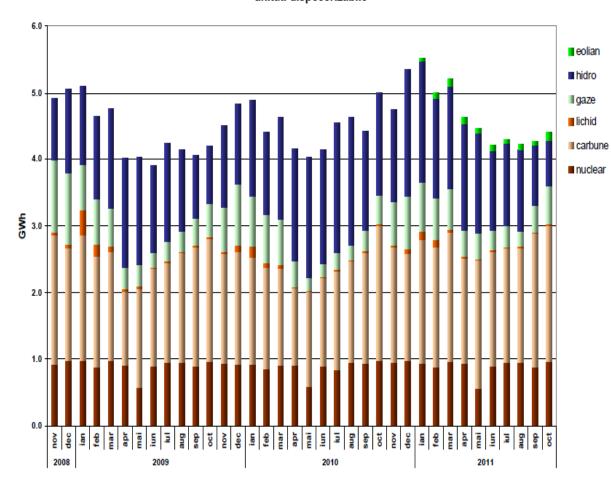
NEXT STEPS

- Individual notification for Cogealac (255 MW)
- DG COM endorsement on individual notifications
- EO should be confirmed by Parliament debates have started

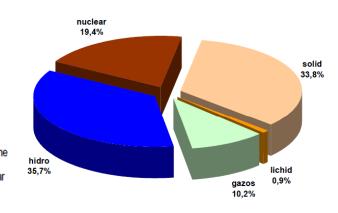


Generation portfolio has started to change

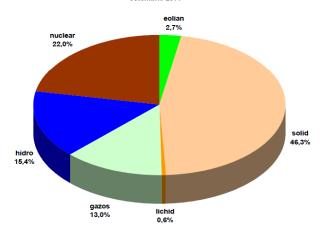
Evolutia structurii pe tipuri de resurse a energiei electrice livrate in retea de producatorii cu unitati dispecerizabile



Structura pe tipuri de resurse a energiei electrice livrate in retele de producatorii cu unitati dispecerizabile - 2010 -



Structura pe tipuri de resurse a energiei electrice livrate in retele de producatorii cu unitati dispecerizabile - octombrie 2011 -





ESTIMATION FOR GREEN ENERGY DEVELOPMENT

Source: National notification

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Renewables installed capacity (MW)	1797	2559	3331	3902	4349	4677	4677	4677	4677	4677
Wind -new equipment	1250	1850	2450	2880	3200	3400	3400	3400	3400	3400
Wind - reused	12	14	16	18	20	20	20	20	20	20
Hydro - new	117	167	217	267	317	367	367	367	367	367
Hydro - upgrade	34	59	84	109	134	159	159	159	159	159
Hydro - existing	286	261	236	211	186	161	161	161	161	161
BiomassCogen - new	45	83	126	150	175	210	210	210	210	210
Landfill/SewageGas - new	5	8	11	14	17	20	20	20	20	20
BiomassE - new	20	37	56	70	85	100	100	100	100	100
BiomassECropsE - new	20	37	57	70	85	100	100	100	100	100
Solar - new	8	43	78	113	130	140	140	140	140	140
2008 2009 2010 20	11 2012	201	13 20	11/	2015	2016	2017	2018	2019	202

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Target (%)	5.26	6.28	8.30	10	12	14	15	16	17	18	19	19.5	20
Achieved (%)	0.316	0.589	1.566										

CONTRACTE RACORDA	RE TRANSELECTRICA
27.01.2012	
Tip energie verde	MW
Eolian	8825
Hidro mic	105
Photovoltaic	219
Biogaz	3.64
Biomasa	21.2
Cogenerare	841.2
TOTAL	10015.04

Tip energie verde	MW
Eolian	8828
Hidro mic	204
Photovoltaic	339
Biogaz	22.5
Biomasa	37.9
Cogenerare	670
TOTAL	10101.4

ATR TRANSELECTRICA 27.01.2012

Source: Transelectrica



RELEVANT INFORMATION ON GC

Piaţa Centralizată pentru Certificate Verzi - Date relevante ianuarie 2012 (sursa: OPCOM)

Participanți înregistrați la PCCV: 166

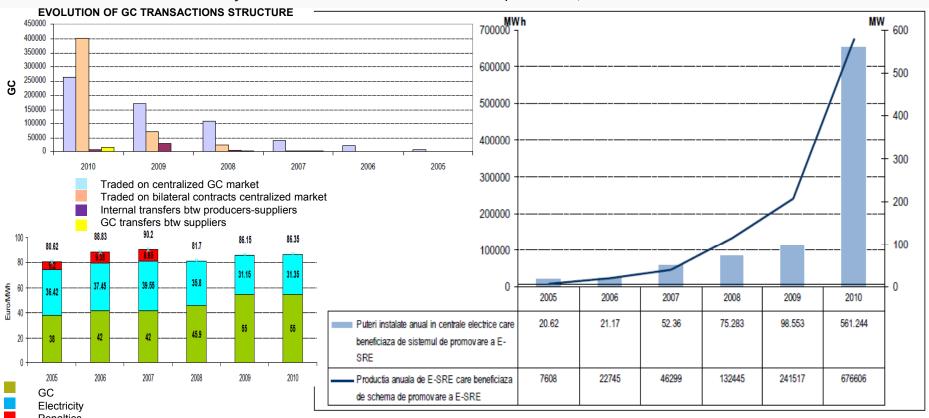
Număr de participanți activi [participanți/lună]: 43

Certificate verzi tranzacţionate:

Număr: 21.750

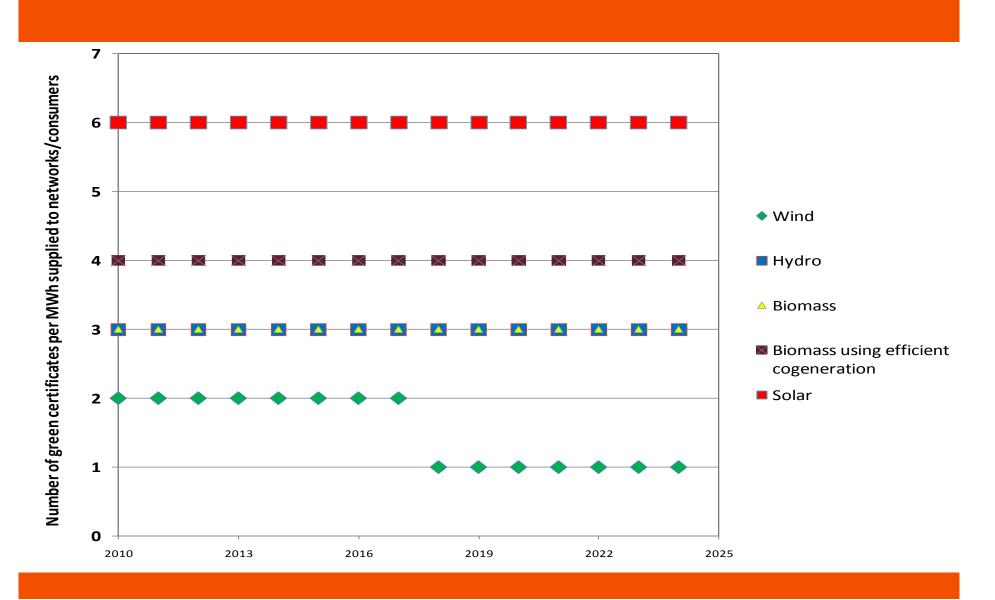
Preţ [RON/certificat]: **241,04** Preţ [EUR/certificat]: **56,15**

Numărul certificatelor verzi tranzacționate centralizat în contul anului 2011 reprezintă 22,09% din numărul certificatelor verzi emise.



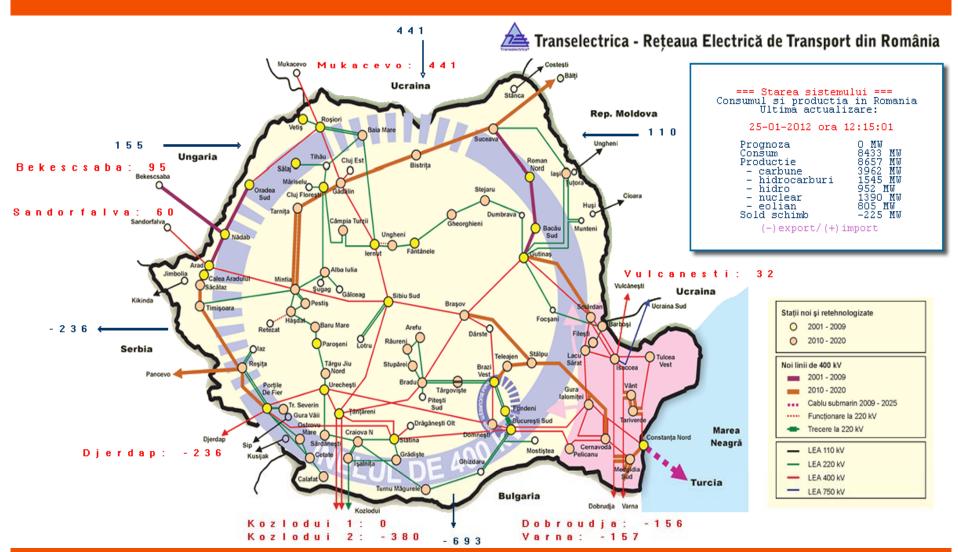


WIND IS THE CHEAPEST GREEN ENERGY FOR ROMANIAN ELECTRICITY CONSUMERS



Œ

DURING DRY YEAR, WIND IS EVEN MORE IMPORTANT TO COVER ELECTRICITY DEMAND AND TO ACHIEVE NATIONAL TARGET OF GREEN ENERGY



WITH 10 MILLION CUSTOMERS AND 18 BILLIONS EURO AS MARKET CAPITALIZATION, CEZ GROUP RANKS 8TH PLACE AMONG LARGEST **UTILITIES IN EUROPE**

			CEZ Group in Romania (100% stake in CEZ Distributie, CEZ Vanzare, (CEZ
CEZ Group in Poland		Energy Assets O Active subsidiar	Romania CEZ Trade Tomis Team MW Invest	
(100% stake in Skawina, 100% in Elcho)		•	 El.sales to end customers (TWh) 	3.5
 Electricity generation, gross (TWh) 	2.1	Trading	Number of connection points (million)Market share for sales	1.4 8%
Market share	1.4%	Activities		0.66
Installed capacity (MW)	730		Market shareInstalled capacity (MW)	405
 Market share 	2.2%		Market share 1	.5%
Number of employees	433		• •	996 370
Sales (EUR million)	145	2//	CEZ Group in Bulgaria	370
CEZ Group in Germany			(67% stake in CEZ Razpredelenie Bulga	ria. CEZ
(50% stake in MIBRAG)		and the second	Electro Bulgaria, 100% in TPP Varna)	,
 Annual coal extraction (m t) 	19.6	E Wan	El. sales to end customers (TWh)	8.8
Sales (EUR m)	416		Number of connection points (million)	2.0
CEZ Group in the Czech Republic	Į.,		Market share	40%
Electricity generation, gross (TWh)	63.2		Installed capacity (MW)	1,260
Market share	74%	3.3	Market share	6,9%
 Number of connection points (million) 	3.5		Number of employees	4,282
Market share	61%		■ Sales (EUR million)	773
 Installed capacity (MW) 	12,728		CEZ Group in Turkey	
 Number of employees 	20,851		(44.3% stake in SEDAS through AkCez,	37.36%
Sales (EUR million)	6,041		stake in Akenerji)	
CEZ Group in Albania			El. sales to end customers (TWh)	10.1
(76% stake in CEZ Shpërndarje)			Number of connection points (million)	1.3
El. sales to end customers (TWh)	4.6		Market share	6.5 %
Number of connection points (million)	1.1		 Installed capacity (MW) 	654



CEZ GROUP ALREADY INVESTED ABOUT 1,5 BILLION EURO IN ROMANIA



Sales and distribution services

Clui-Napoca

Tirau Mures



Sales services

At end 2010, CEZ bought 4 small microhidropower plants close to Resita, with an installed power of 18 MW, spending 20 mil.Euro; during 2012-2013, units are to be fully rehabilitated

CEZ wind park CEZ at Fantanele&Cogealac is the biggest onshore from Europe, with its **600 MW** installed, with an investment of over **1,1 billion Euro**;

387.5 MW are already up and running;

Remaining capacity up to 600 MW to be commissioned by end 2012

CEZ Vanzare supplies electricity for 1,4 million customers, not only in our region, but all over Romania

CEZ Distributie continues to invest every year about 50 mil.euro into distribution networks for its 1,4 million customers

Pitesti

O Drobeta:
Turnu
Slatina

Slatina

Buzau

Braila

Tulcea

Ploiesti

Ploiesti

Slobozia

Craiova

Slatina

Bupuresti

CalarasiO

Constarta



THANK YOU VERY MUCH FOR YOUR KIND ATTENTION!

