

ROMANIAN ENERGY REGULATORY AUTHORITY

RES INDUSTRY IN ROMANIA

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Romanian Energy Center
BUCHAREST, 23rd of June 2017

EUROPE 2020 – ROMANIAN OBJECTIVES



2015

2020-RO

2030 – UE

Energy from renewable sources (E-RES)	energy from renewable sources (E-RES) in gross final energy consumption	24.8% (Eurostat)	24%	27 %
Energy efficiency	Primary energy consumption – Mtoe-	31,3 (Eurostat)	43	
	Increasing energy efficiency (Expressed as a reduction in primary energy consumption)	19 % (ANRE estimation) (7 Mtoe - ANRE estimation)	19% (10 Mtep)	30%
Greenhouse gas emissions (GHG)	greenhouse gas emissions (GHG): 20% lower than 1990 level	43,68% (Eurostat - 2014)	19%	40%

SUPPORTED RES TO END OF YEAR 2016

Year	Wind	Hydro	Biomass	Photovoltaic	Total
2005	2	1			3
2006	3	3			6
2007	11	9			20
2008	12	11			23
2009	15	14	1	1	31
2010	26	18	3	1	48
2011	42	32	4	4	82
2012	56	47	7	41	151
2013	73	77	14	395	559
2014	73	81	19	456	629
2015	70	89	25	514	698
2016	71	103	28	576	778

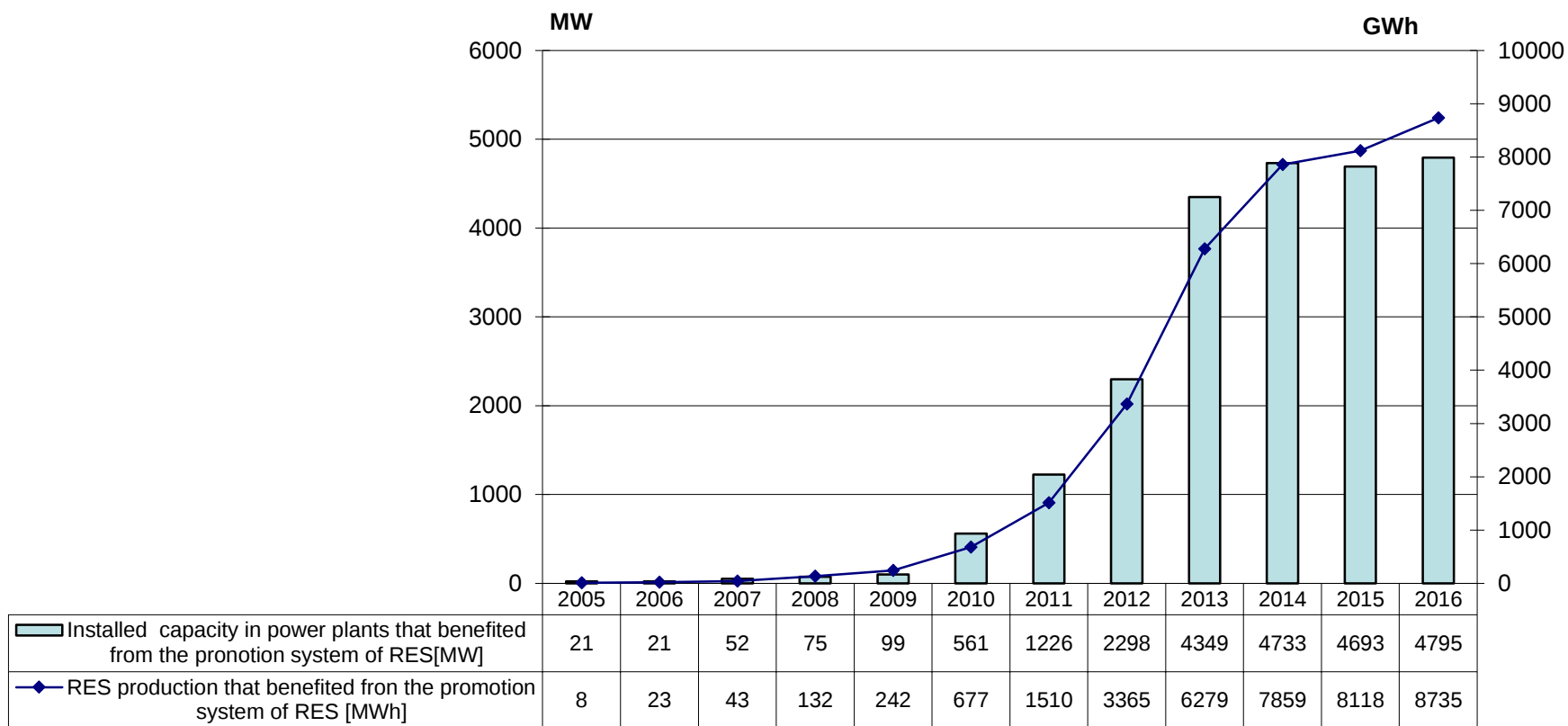
EVOLUTION OF RES

Technologies	Certified installed power on					31.12.2016
	31.12.2011	31.12.2012	31.12.2013	31.12.2014	31.12.2015	
Wind	822	1797	2593	2809*	2932	2963
Hydro with less than 10 MW	378	427	531	311	328	348
Biomass/biogas/ waste gas fermentation	25	29	66	100	106	124
Photovoltaics	1	46	1159	1230	1296	1360
TOTAL	1226	2299	4349	4450	4662	4795

* Out of which approx. 620 MW with expired temporary certification

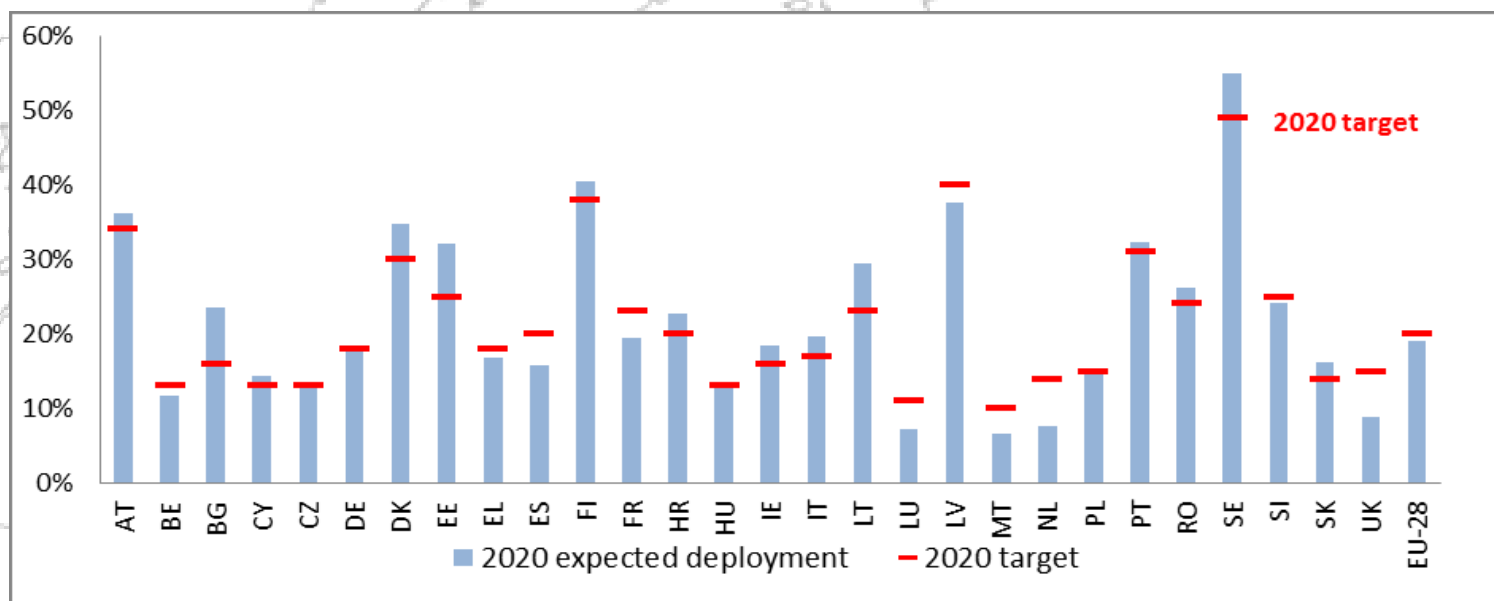
Technologies			NREAP			
	2011	2012	2013	2014	2015	2016
Wind	1250	1850	2450	2880	3200	3400
Hydro with less than 10 MW	437	487	527	587	637	687
Biomass/biogas/ waste gas fermentation	90	165	250	340	425	510
Photovoltaics	8	43	78	113	148	183
TOTAL	1785	2545	3305	3920	4410	4780

INSTALLED CAPACITY OF RES



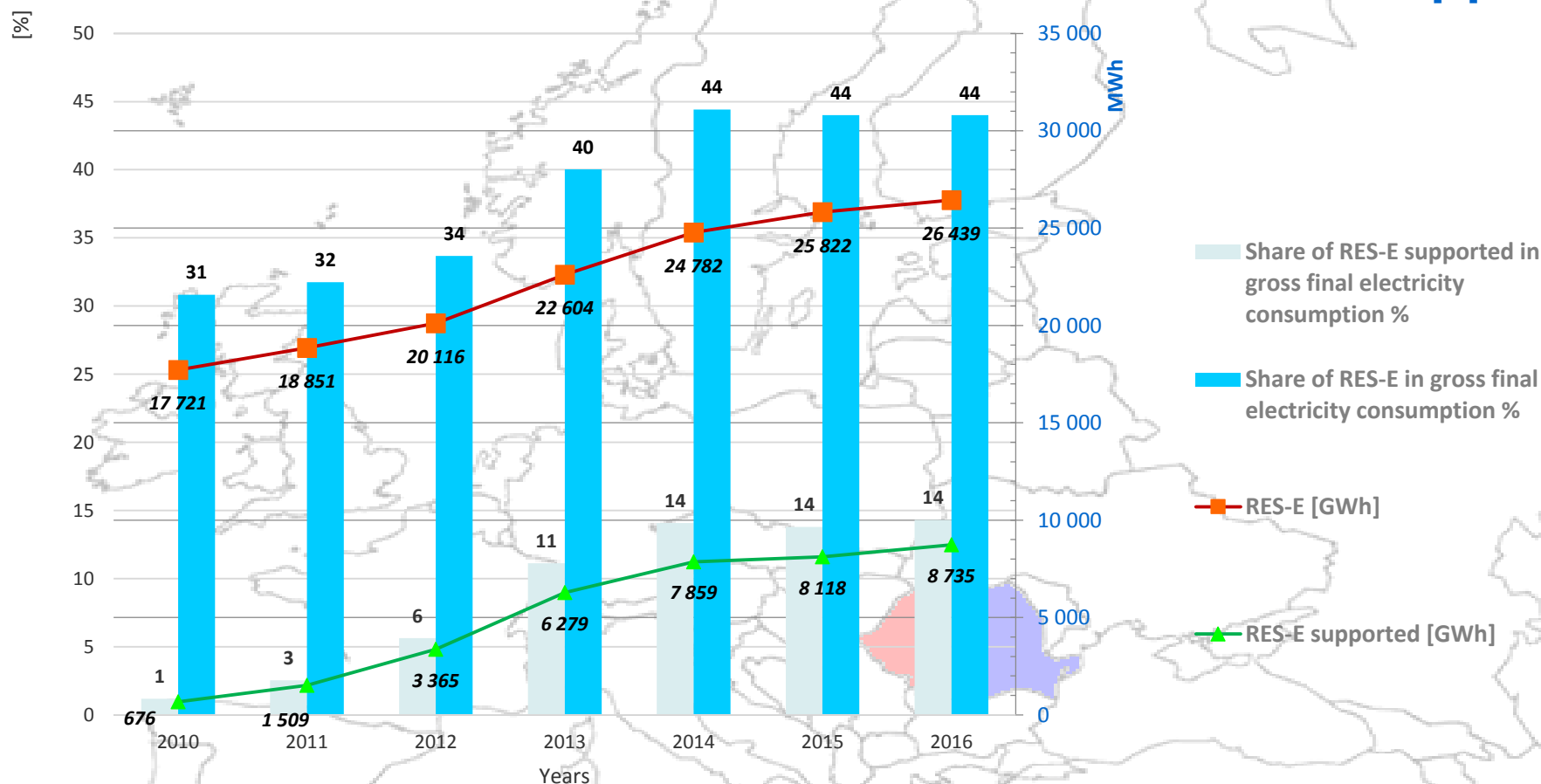
Year	2015	2020
SHARE OF RES IN GROSS FINAL ENERGY CONSUMPTION [%]	24.79 *	24

Source: EUROSTAT Preliminary report: <http://ec.europa.eu/eurostat/web/energy/data/shares>



— Source: European Commission, based on projections at 2014 TU Wien (Green-X) projections
Renewable energy progress Report- 16/06/2015

SHARE OF RES AND SUPPORTED RES IN GROSS FINAL ELECTRICITY CONSUMPTION [%]



RES INDUSTRY MAP

E-RES [MW]	Support scheme E-RES *	2016 E-RES according NREAP
Wind	2963	3400
Hydro	348	687
Biomasa	124	510
Photovoltaics	1360	183
TOTAL	4795	4780



UPDATE ON RES LEGAL FRAME

- Emergency Ordinance 24/2017 amending the Law no. 220/2008
- Promotion of the production of RES and with great potential for Romania (biomass, biogas, geothermal)
 - ✓ The law draft regarding the biomass and biogas under debate in the Parliament of Romania
- Measures for the financing of investment in the capacity for the production of RES and high-efficiency cogeneration (Government Decision 216/2017):
 - MDRAP - state aid to support investments in biomass, biogas geothermal (60 MW, 100 million Euro, 85% - European Regional Development Fund / 15% - Public financing, maximum of 15 million euros for a project of investment);
 - MDRAP - state aid for high-efficiency cogeneration (50 MWe, 81 million Euro, 85% - European Regional Development Fund / 15% - Public financing, max 8 MWe power plant (natural gas and biomass).

THANK YOU FOR YOUR ATTENTION !

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