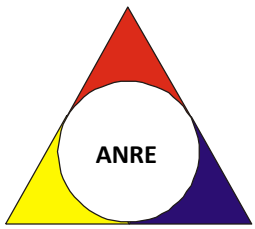


ROMANIAN ENERGY REGULATORY AUTHORITY

RESULTS OF APPLICATION OF THE SUPPORT SCHEME

March 2018



AGENDA



EVOLUTION OF REGULATIONS RELATED RENEWABLE

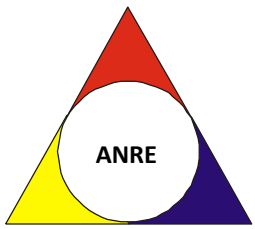
THE RESULTS REGARDING APPLICATION OF THE SUPPORT SCHEME



FUTURE PERSPECTIVE FOR APPLICATION OF SUPPORT SCHEME



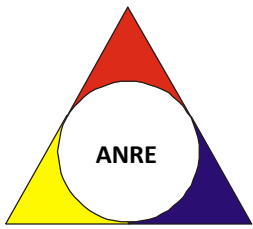
CONCLUSIONS



EVOLUTION OF REGULATIONS RELATED RENEWABLE

Law no. 220/2008 for establishing the system to promote the production of energy from renewable sources of energy, republished, with subsequent amendments and completions

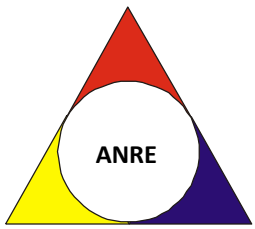
- *GO no. 29/2010 amending and supplementing Law no. 220/2008;*
- *Law no. 139/2010 amending and supplementing Law no. 220/2008;*
- *GEO no. 88/2011 amending and supplementing Law No. 220/2008;*
- *Law no. 134/2012 approving GEO no. 88/2011 amending and supplementing Law no. 220/2008;*
- *GEO no. 57/2013 amending and supplementing Law no. 220/2008;*
- *GEO no. 79/2013 amending and supplementing Law no land improvements. 138/2004, for the GEO no. 82/2011 on some measures for the organization of land reclamation and amending letter e) of paragraph (6) of article 3 of Law no. 220/2008.*



EVOLUTION OF REGULATIONS RELATED RENEWABLE

Law no. 220/2008 for establishing the system to promote the production of energy from renewable sources of energy, republished, with subsequent amendments and completions

- *GD no. 994/2013 approving measures to reduce the number of green certificates in situations referred to in art. 6 para. (2) a), c) and f) of Law no. 220/2008;*
- *Law no. 23/2014 approving GEO no. 57/2013 amending and supplementing Law no. 220/2008;*
- *GD no. 495/2014 for the establishment of a state aid scheme exempting certain categories of end users from Law no. 220/2008 establishing the system for promoting energy from renewable sources*
- *Law no. 122/2015 approving measures promoting electricity production from renewable energy sources and amending and supplementing certain acts*
- *GEO no. 24/2017 amending and supplementing Law no. 220/2008;*



AGENDA



EVOLUTION OF REGULATIONS RELATED RENEWABLE

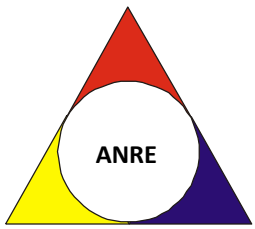
THE RESULTS REGARDING APPLICATION OF THE SUPPORT SCHEME



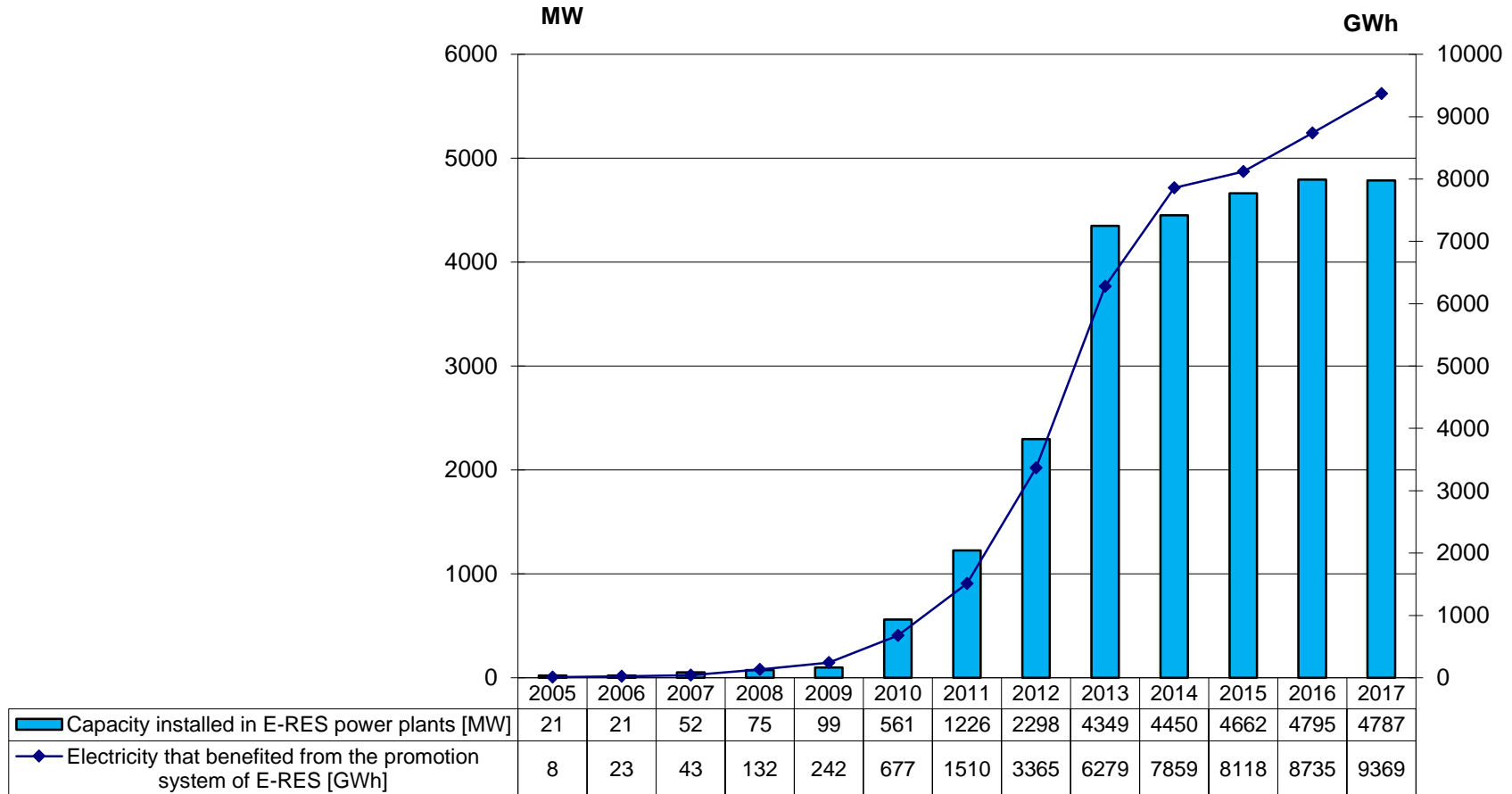
FUTURE PERSPECTIVE FOR APPLICATION SUPPORT SCHEME

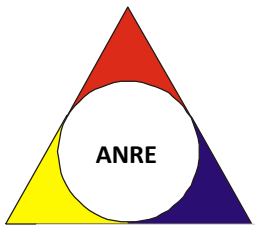


CONCLUSIONS



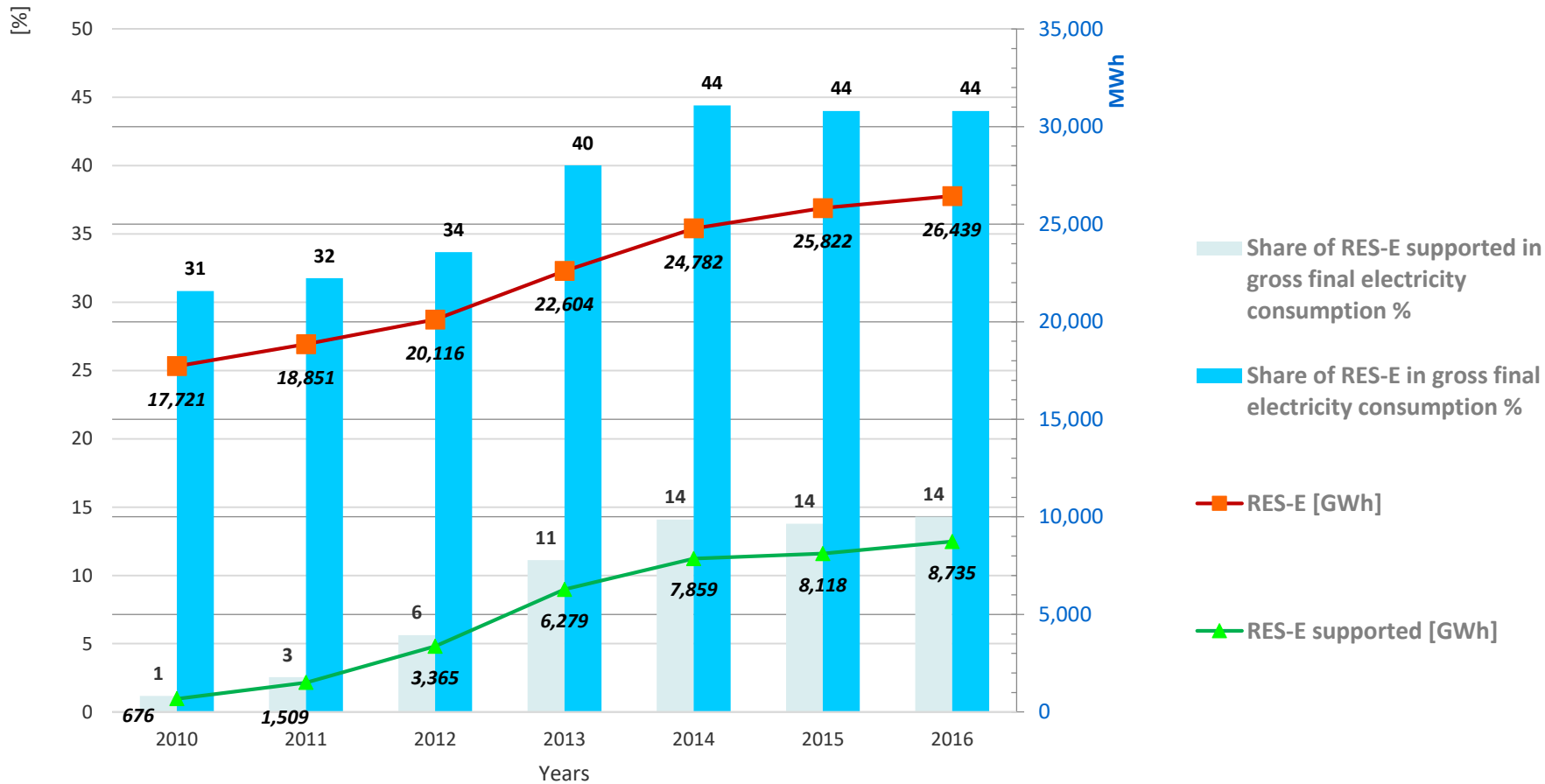
THE RESULTS REGARDING APPLICATION OF THE SUPPORT SCHEME - capacity installed in E-RES power plants

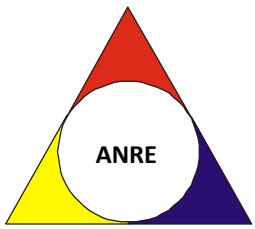




THE RESULTS REGARDING APPLICATION OF THE SUPPORT SCHEME - achieving the national target 2005÷2016

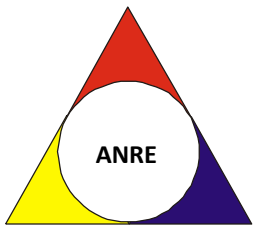
SHARE OF RES AND SUPPORTED RES IN GROSS FINAL ELECTRICITY CONSUMPTION [%]





THE RESULTS REGARDING APPLICATION OF THE SUPPORT SCHEME - The total number of E-RES producers qualified / accredited to end of year 2016

Year	Wind	Hydro	Biomass	Solar	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	87	25	514	696
2016	71	103	28	576	778
2017	67	103	28	576	774

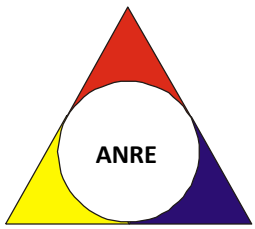


THE RESULTS REGARDING APPLICATION OF THE SUPPORT SCHEME – Evolution of E-RES power plants

RES according to NREAP*	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Wind [MW]	1.250	1.850	2.450	2.880	3.200	3.400	3.600	3.750	3.900	4.000
Hydro (less than 10 MW)	437	487	537	587	637	687	702	713	721	729
Biomass [MW]	90	165	250	340	425	510	540	565	590	600
Solar [MW]	8	43	78	113	148	183	200	220	240	260
TOTAL [MW]	1.785	2.545	3.315	3.920	4.410	4.780	5.042	5.248	5.451	5.589

Tehnologies	CERTIFIED INSTALLED POWER at:						
	2011	2012	2013	2014	2015	2016	2017
Wind [MW]	822	1797	2593	2809	2932	2963	2962
Hydro (less then 10 MW) [MW]	378	427	531	311	328	348	342
Biomass/biogas/ Waste gas fermentation [MW]	25	29	66	100	106	124	124
Solar [MW]	1	46	1159	1230	1296	1360	1359
TOTAL	1226	2299	4349	4450	4662	4795	4787

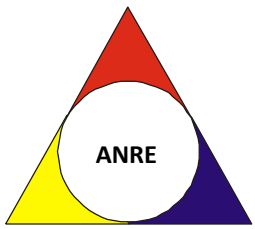
- NATIONAL RENEWABLE ENERGY ACTION PLAN



THE RESULTS REGARDING APPLICATION OF THE SUPPORT SCHEME – Support scheme compared to NREAP



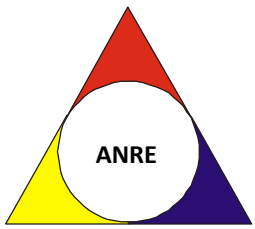
E-RES [MW]	Support scheme E-RES	2017 E-RES according NREAP
Wind	2962	3.600
Hydro	342	702
Biomasa	124	540
Photovoltaics	1359	200
TOTAL	4787	5.042



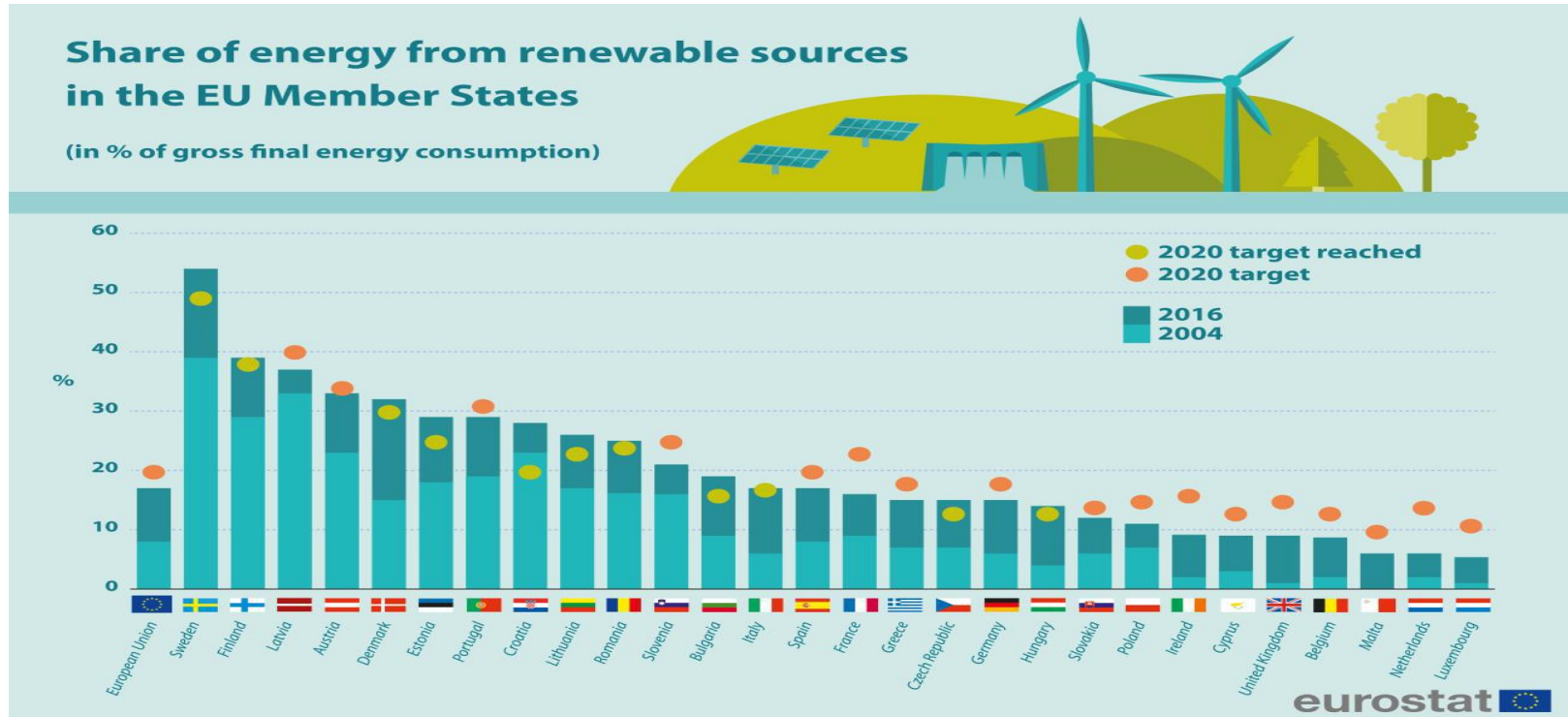
THE RESULTS REGARDING APPLICATION OF THE SUPPORT SCHEME – Conclusions (1)



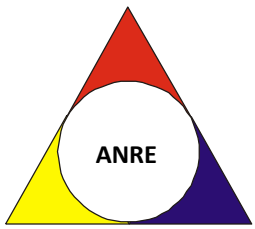
		2016	2020 - RO	2030 - UE
Energy from renewable sources (E-RES)	Energy from renewable sources (E-RES) in gross final energy consumption	25.3%	24%	35%



THE RESULTS REGARDING APPLICATION OF THE SUPPORT SCHEME – Conclusions (2)



Source: Eurostat, January 2018



AGENDA



EVOLUTION OF REGULATIONS RELATED RENEWABLE

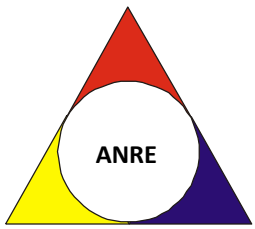
THE RESULTS REGARDING APPLICATION OF THE SUPPORT SCHEME



FUTURE PERSPECTIVE FOR APPLICATION SUPPORT SCHEME

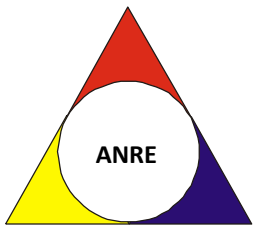


CONCLUSIONS



FUTURE PERSPECTIVE FOR APPLICATION OF THE SUPPORT SCHEME

- 20% - EU target for the share of energy from renewable sources in gross final energy consumption in 2020
 - 24% - the national target for the share of energy from renewable sources in gross final energy consumption in 2020 (**target already exceeded**)
 - national targets for the share of electricity produced from renewable sources in gross final consumption of electricity in the years 2010, 2015 and 2020 is 33%, 35% and 38% (**targets already exceeded**)
- **at least 27% - EU target for the share of energy from renewable sources in gross final energy consumption of 2030**
 - **possible national targets that will result later** (we believe that these targets will be achieved soon, whether they will be established according to the known algorithm)



AGENDA



EVOLUTION OF REGULATIONS RELATED RENEWABLE

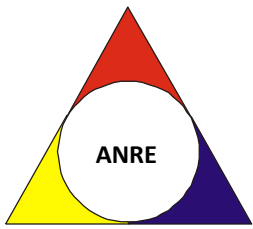
THE RESULTS REGARDING APPLICATION OF THE SUPPORT SCHEME



FUTURE PERSPECTIVE FOR APPLICATION SUPPORT SCHEME



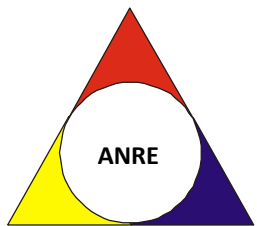
CONCLUSIONS



CONCLUSIONS

➤ Future objectives:

- ❖ To design a suitable legislative framework for promoting the E-RES in power plants with installed capacity below 100kW (micro-capacity to satisfy local consumption) on:
 - biogas;
 - biomass;
 - solar.
- ❖ ANRE will continue to focuses on:
 - Monitoring of the GC market in order to ensure it's fluidity and correct operation;
 - Maintaining a manageable impact on final consumer bill.



ROMANIAN ENERGY REGULATORY AUTHORITY

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