





# SUPPORT SCHEMES – LESSONS LEARNED AND POLICY SUPPORT FOR THE FUTURE

PERSPECTIVES FOR RENEWABLES IN ROMANIA AND THE CESEC REGION 01 April 2019 Bucharest – ROMANIA



DIRECTIVE 2009/28/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL ON PROMOTING THE USE OF ENERGY FROM RENEWABLE SOURCES AND AMENDING AND SUBSEQUENTLY REPEALING DIRECTIVES 2001/77/EC AND 2003/30/EC

- the European objective of achieving a share of at least 20% of the share of energy from renewable sources in the Community's gross final consumption of energy in 2020
- The level of the national target regarding the percentage of energy produced from renewable sources in the final gross consumption of energy in 2020 is 24%
- 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%



DIRECTIVE 2009/28/EC of the European Parliament and of the Council on the promotion of the use of energy from renewable sources and amending and subsequently repealing Directives 2001/77/EC and 2003/30/EC

- Electricity and Natural Gas Law no. 123/2012, amended and completed
- Law no. 220/2008 for establishing the promotion system for the production of RES-E, republished, amended and completed;
- National Renewable Energy Action Plans NREAP

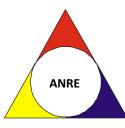
### **EUROPEAN AND NATIONAL FRAMEWORK**

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

- >2010 GO no. 29 and Law no. 139;
- > 2011 GEO no. 88;

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- > 2012 Law no. 134/2012 approving GEO no. 88/2011;
- > 2013 GEO no. 57, GEO no. 79 and GD no. 994;
- > 2014 Law no. 23/2014 approving GEO no. 57/2013 and GD no. 495/2014 for the establishment of a state aid scheme exempting certain categories of end users from Law no. 220/2008
- > 2015 Law no. 122/2015;
- > 2017 − GEO no. 24;
- > 2018 Law no. 184 approving GEO no. 24/2017;
- > 2018 Law no. 360 regarding the amendment of art. 8 of Law no. 220/2008 <sup>4</sup>



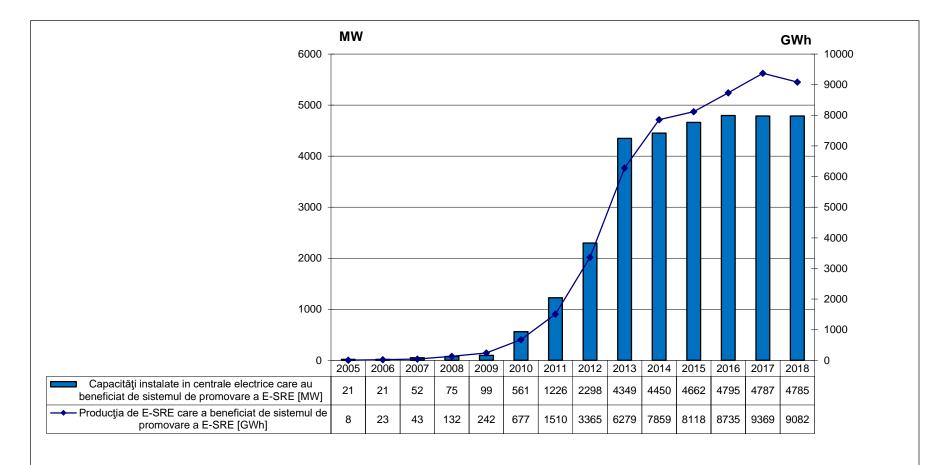
### **RESULTS ON THE PROMOTION OF RENEWABLE SOURCES** - evolution of RES-E capacity

RES according to NREAP*	2011	2012	2013	2014	2015	2016	2017	2018
Wind [MW]	1250	1850	2450	2880	3200	3400	3600	3750
Hydro (less than 10 MW)	437	487	537	587	637	687	702	702
Biomass [MW]	90	165	250	340	425	510	540	565
Solar [MW]	8	43	78	113	148	183	200	220
TOTAL [MW]	1785	2545	3315	3920	4410	4780	5042	5237

Tehnologies	CERTIFIED INSTALLED POWER at:								
	2011	2012	2013	2014	2015	2016	2017	2018	
Wind [MW]	822	1797	2593	2809	2932	2963	2962	2961	
Hydro (less then 10 MW) [MW]	378	427	531	311	328	348	342	341	
Biomass/biogas/									
Waste gas fermentation [MW]	25	29	66	100	106	124	124	124	
Solar [MW]	1	46	1159	1230	1296	1360	1359	1359	
TOTAL	1226	2299	4349	4450	4662	4795	4787	4785	

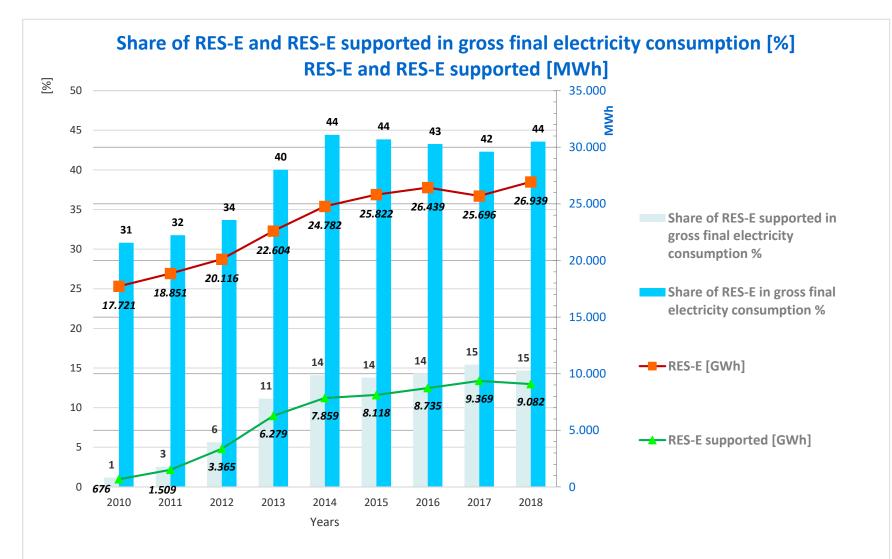
•NATIONAL RENEWABLE ENERGY ACTION PLAN

## ANRE EVOLUTION OF RES-E CAPACITY AND RES-E PRODUCTION

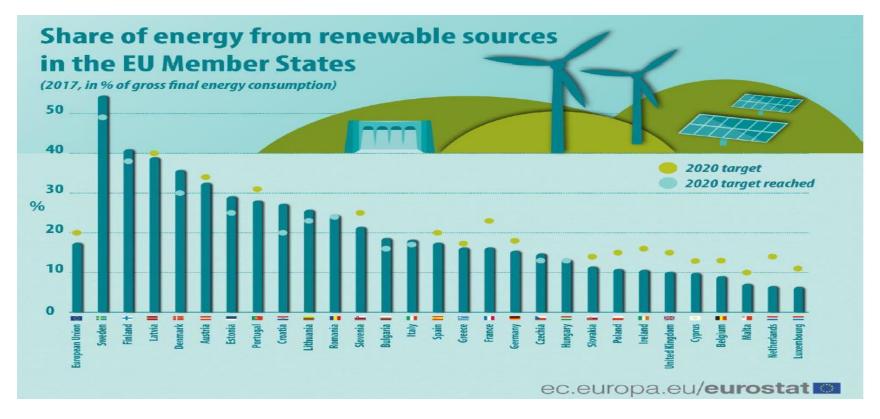


## **RESULTS ON THE PROMOTION OF RENEWABLE SOURCES** - achieving the national target 2005÷2017

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## RESULTS ON THE PROMOTION OF RENEWABLE SOURCES - achieving the national target



Year	2017	2020
ROMANIAN SHARE OF RES IN GROSS FINAL ENERGY CONSUMPTION [%]	24.5	24

Source: Eurostat, Febr 2019



- > more than 45 times increase in new install RES-E capacities in 7 years (99 MW – 2009 to 4795 MW in 2016)
- > multiple legislative ammendments
- > large capacities installed in renewable (wind, solar)
- generation volatility of renewable sources
- Sestablishing a fragile balance between all RES-E producers and RES-E producers and consumers

# FUTURE PERSPECTIVE FOR RENEWABLE SOURCES

- 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 32% - EU target for the share of energy from renewable sources in gross final energy consumption of 2030

 about 27.9% (from National Integrated Energy and Climate Plan – Public consultation – Ministry of Energy) the national target for the share of energy from renewable sources in gross final energy consumption in 2030

### NEAR FUTURES OBJECTIVES WITH IMPACT ON RENEWABLE SOURCES

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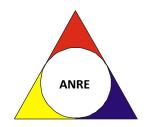
- Optional support scheme (feed-in-premium) for the actual GCs promotion scheme
- Development of storage facilities in order to increase the penetration of electricity from renewable sources
- Sale of electricity aggregation of offers in order to enhance financial and generation performance
- Self-consumers prosumers with installed capacity under 27kW/consumption point: solar, wind, biogas, biomass (regulation already in place);
- issuing the framework for the connection of new RES-E capacities to the electricity grid (regulation already in place):
  - the share of participation in the financing of the electrical network reinforcement;
  - encouraging E-RES production to ensure local consumption.



- Start discussion for transposition of the new Directive 2001/2018/UE
- Create WG on different task related with the provision of the directive:
  - New support scheme for renewable and cogeneration (if possible also for cooling)
  - Opening of the support scheme for renewable
  - Common projects between MS or between MS and third countries
  - New regulation on guarantees of origin (GO)
  - Implement regulation for Self consumers and local communities

#### MEDIUM FUTURE OBJECTIVES WITH IMPACT ON RENEWABLE SOURCES

- Increase grid flexibility
- Optimize use of grid capacity to install new renewable resources
- ✤ Peer to peer electricity trade



**ROMANIAN ENERGY REGULATORY AUTHORITY** 

# Thank you!

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