

Policy Stakeholders Conference
on EU-EaP STI cooperation in addressing Energy

IMPLEMENTATION OF ENERGY EFFICIENCY AND RENEWABLE ENERGY POLICIES IN THE REPUBLIC OF MOLDOVA

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ENERGY SECTOR REVIEW

- The Republic of Moldova is highly dependent on energy imports, 90 % of the energy consumption is covered from import
- Very high energy intensity (roughly 3 times over EU average)
- The share of RES in final energy consumption is about 12,5% (according to the 2013 Energy Balance)

The lack of own resources and high energy intensity sets the energy efficiency and renewable energy sources as a top priority



GENERAL OBJECTIVES

1

- reducing the primary energy consumption by 20% until 2020

2

- increasing the share of renewable energy sources in the overall energy balance up to 20% in 2020

3

- increasing the share of biofuels to at least 10% in the total amount of fuels used in 2020

4

- reducing the GHG emissions by 25% until 2020

EE & RES PROMOTION LEGAL FRAMEWORK⁽¹⁾

**Law on Adherence of the RM
to the Treaty establishing the
Energy Community**

Law No.117 of 23.12.2009

- **Energy Strategy 2030**
- **Renewable Energy Law**
- **Law on Energy Efficiency**
- **Law on the energy
performance of buildings**
- **Law on heat and cogeneration
promotion**
- **Law on eco design**
- **Law on energy labelling**

Gov. D No.102 of 05.02.2013

No.160 of 12.07.2007

No.142 of 02.07.2010

No. 128 of 10.10.2014

No. 92 of 29.05.2014

No. 151 of 17.07.2014

No. 44 of 02.07.2014

EE & RES PROMOTION LEGAL FRAMEWORK⁽²⁾

- | | |
|--|------------------------------|
| • Regulation on energy services | GD No. 1093 of 31.12.2013 |
| • National Energy Efficiency Program 2012-2020 | GD No. 833 on 10.11.2010 |
| • National Energy Efficiency Action Plan 2013-2015 | GD No. 113 on 07.02.2013 |
| • National Renewable Energy Action Plan until 2020 | GD No. 1073 of 27.12.2013 |
| <hr/> | |
| • Law on the promotion of the use of energy from renewable sources | the final draft is available |

EE & RES PROMOTION INSTITUTIONAL FRAMEWORK

Ministry of Economy –
public central authority in the energy sector

Government Decision
No. 690 of 13.11.2009

**Ministry of Regional Development and
Construction –**
public central authority in the construction and
regional development sector

Government Decision
No. 662 of 10.11.2009

Energy Efficiency Agency –
administrative authority in the field of EE & RES

Government Decision
No 1173 of 21.12. 2010

Energy Efficiency Fund –
institution focused on identification and financing
of EE & RES projects

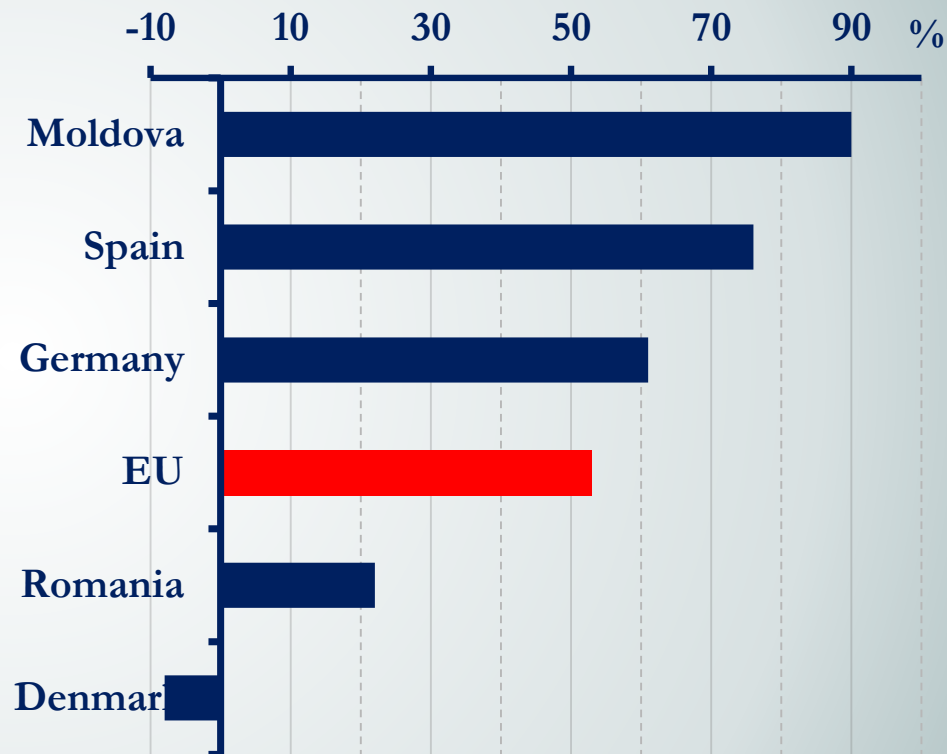
Law
No. 160 of 12.07.2007

National Agency for Energy Regulation –
institution focused on energy sector regulation

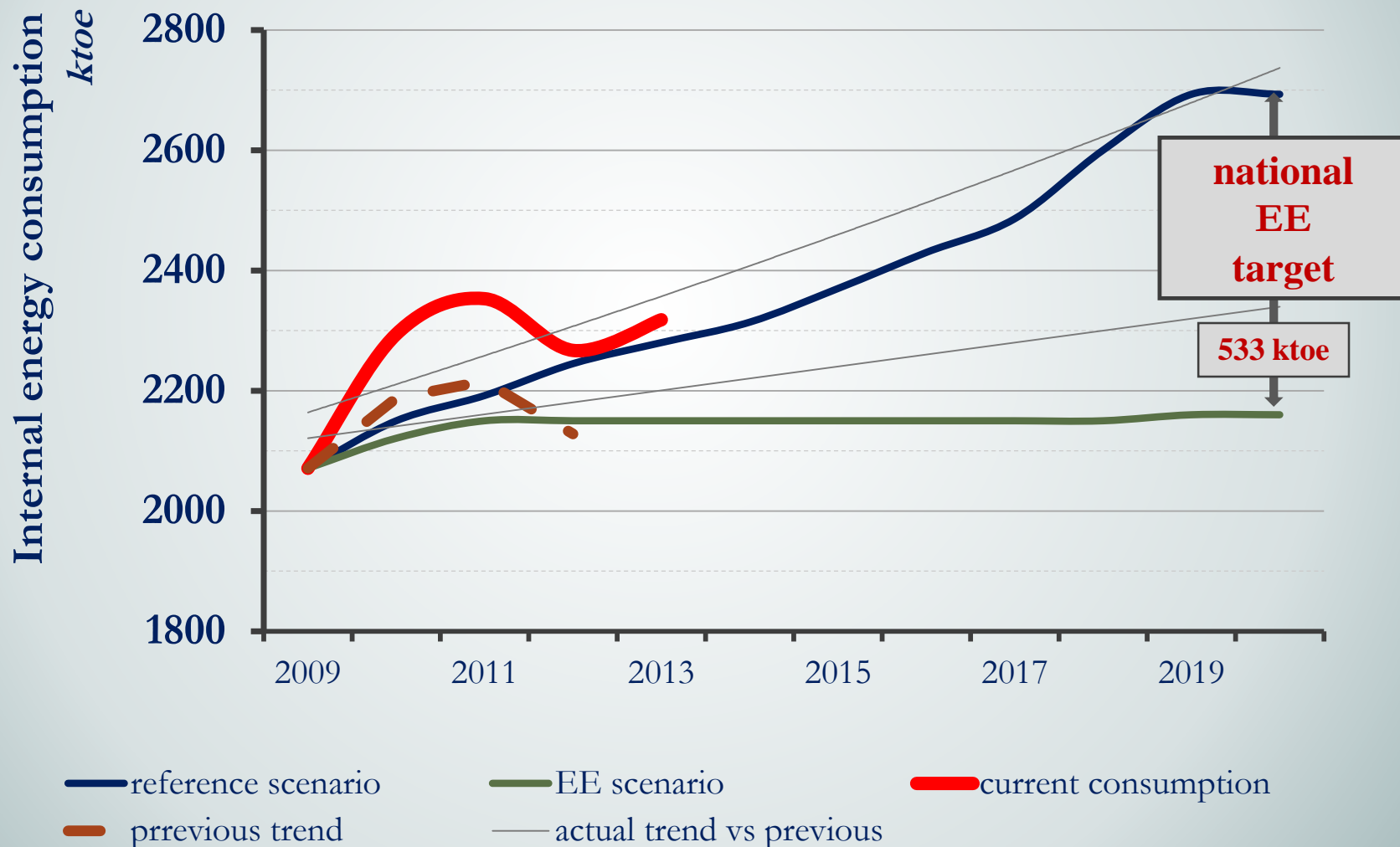
Government Decison
No. 767 of 11.08.1997

ENERGY DEPENDENCE

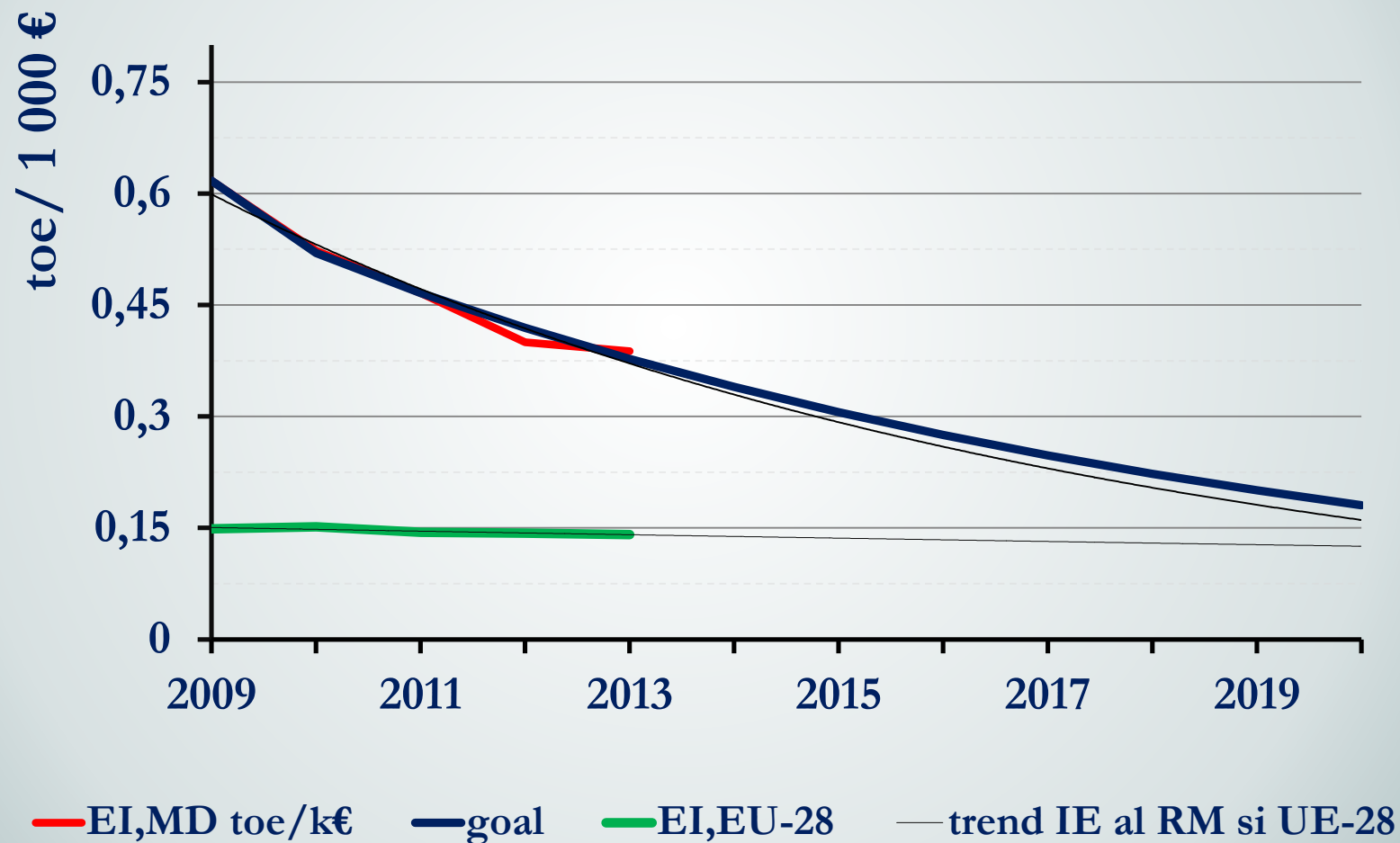
IN COMPARISON



INTERNAL ENERGY CONSUMPTION EVOLUTION IN COMPARISON WITH EE STANDARD

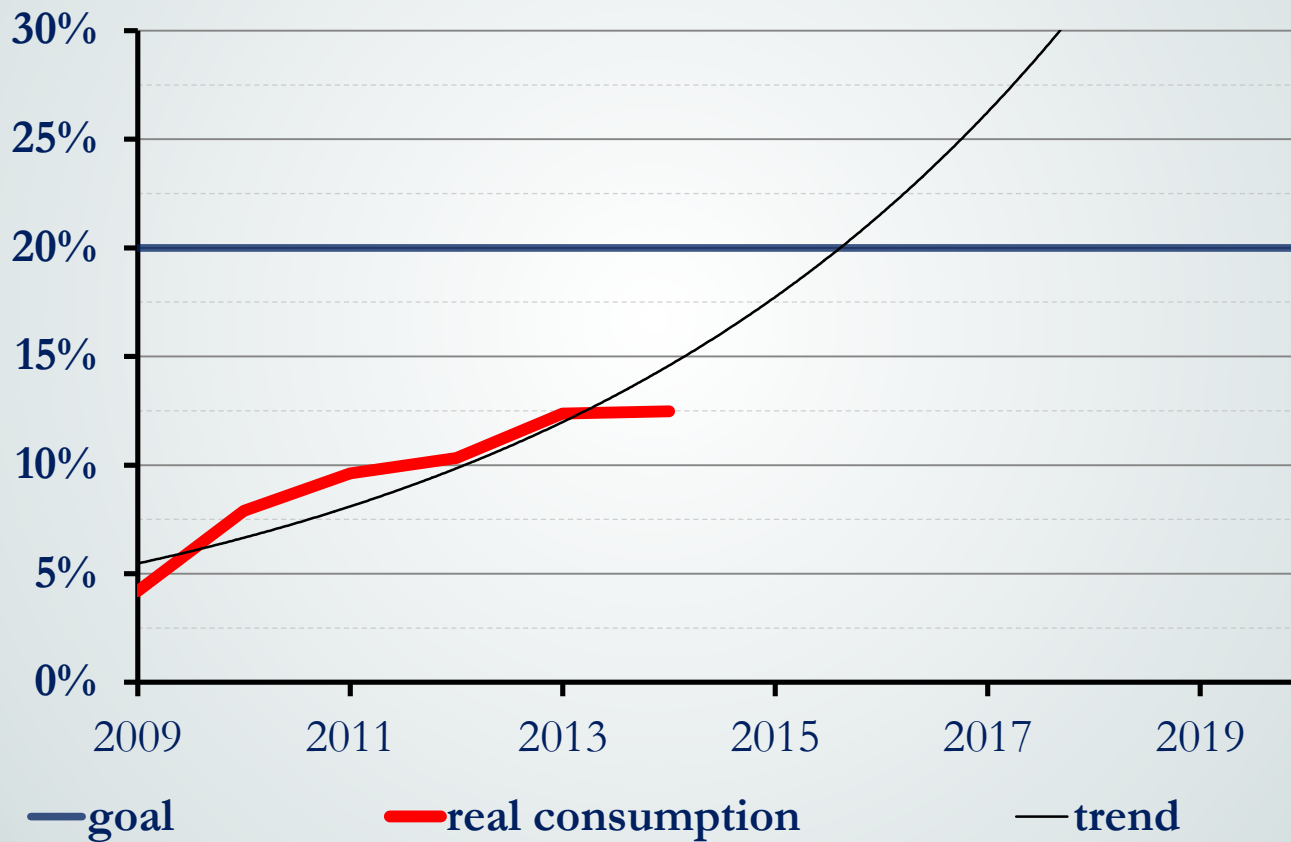


PRIMARY ENERGY INTENSITY



RENEWABLE ENERGY SHARE IN GROSS FINAL ENERGY CONSUMPTION

RE share in GFEC

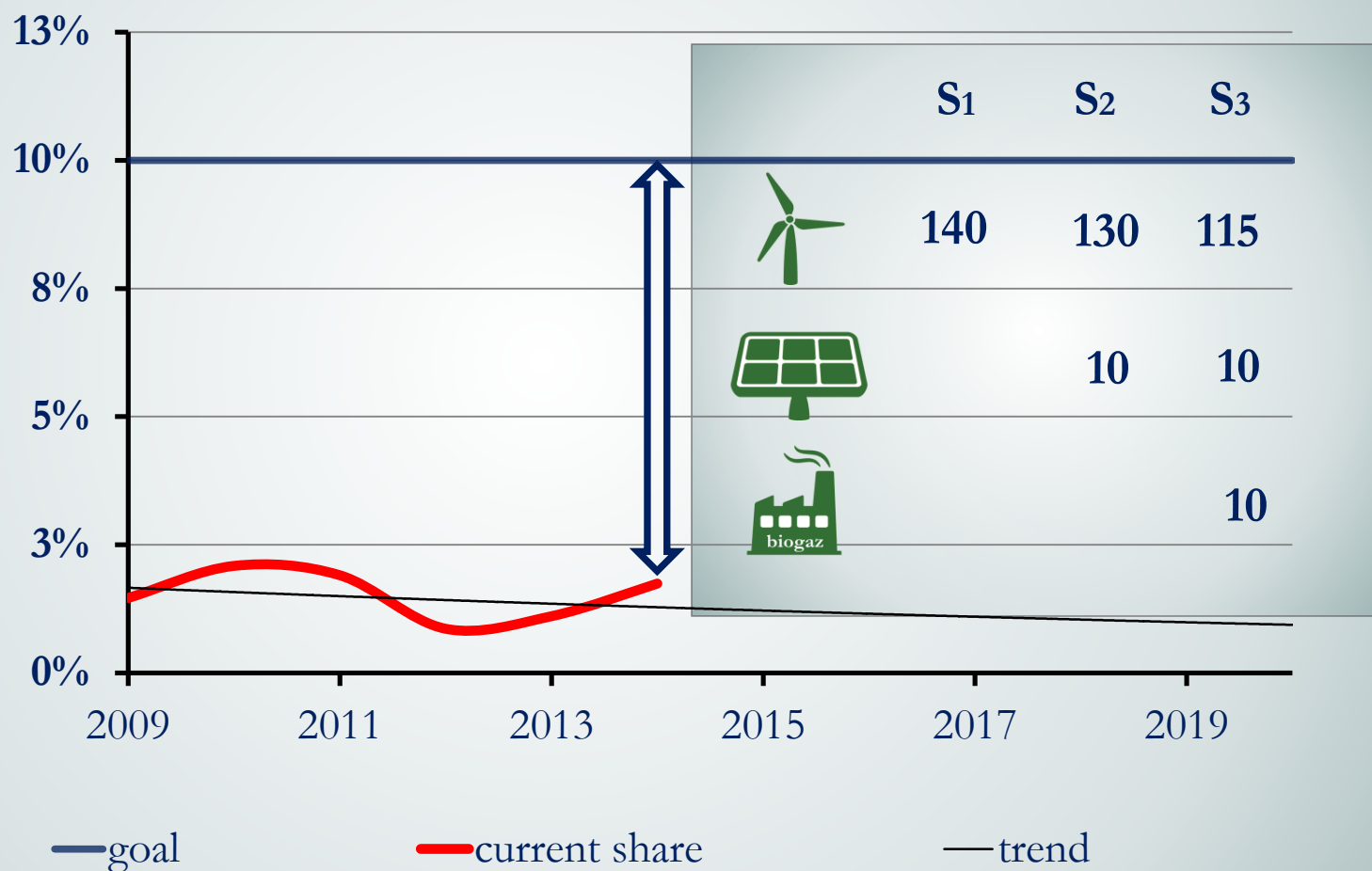


EXISTING RES CAPACITIES

No.	Source	RES capacities, <i>MW</i>	
		E	Î&R
1.	Hydro (non pumping)	16	
2.	Solar PV	2,02	
3.	Wind	1,1	
4.	Biomass		112,57
	– residential sector		37,65
	– Public sector		74,92
5.	Biogas	2,81	
TOTAL		21,93	112,57

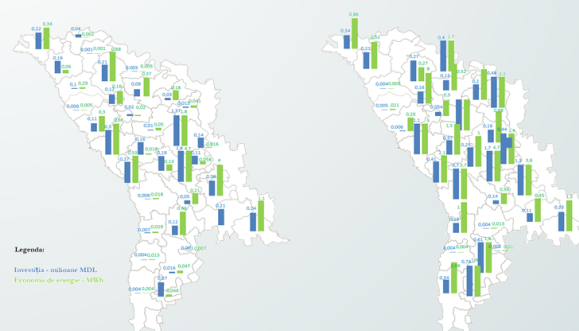
SHARE OF RES-E IN GROSS FINAL ENERGY CONSUMPTION

RES-E share in gross final
electricity consumption



TOOLS FOR ATTRACTING INVESTMENTS IN EE & RES FIELDS

- **Unique Centre /One stop shop/ for informing investors in energy efficiency and renewable energy sources fields**
/carried out by Energy Efficiency Agency/
- **Wind Energy Resources Map** /in process/ and
Solar Energy Resources Map /in process/
- Tax and custom duties exemptions*
- ESCo and PPP legal framework in place
- Data base in field of energy efficiency and renewable energy sources
/developed and updates on permanent basis by Energy Efficiency Agency/



* Actual fiscal legislation provides VAT and custom exempts, until 31st of December 2015 for wind generators with the unitary power more than 1 MW, including VAT exempts for construction and installing works of wind and PV farms

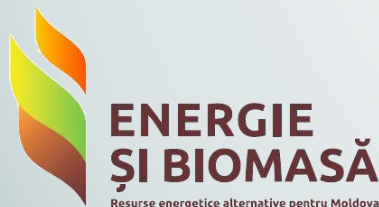
FINANCING INSTITUTIONS IN EE & RES

Financing institutions in EE and RES: UNDP, USAID, GIZ, SIDA, EBRD, EIB, JICA, etc.



Moldovan Sustainable Energy Financing Facility II
- 22 MEuro

Moldovan Residential Energy Efficiency
Financing Facility - 35 MEuro



Energy and Biomass Project – 14.56 + 9.5 Meuro (by 2017)

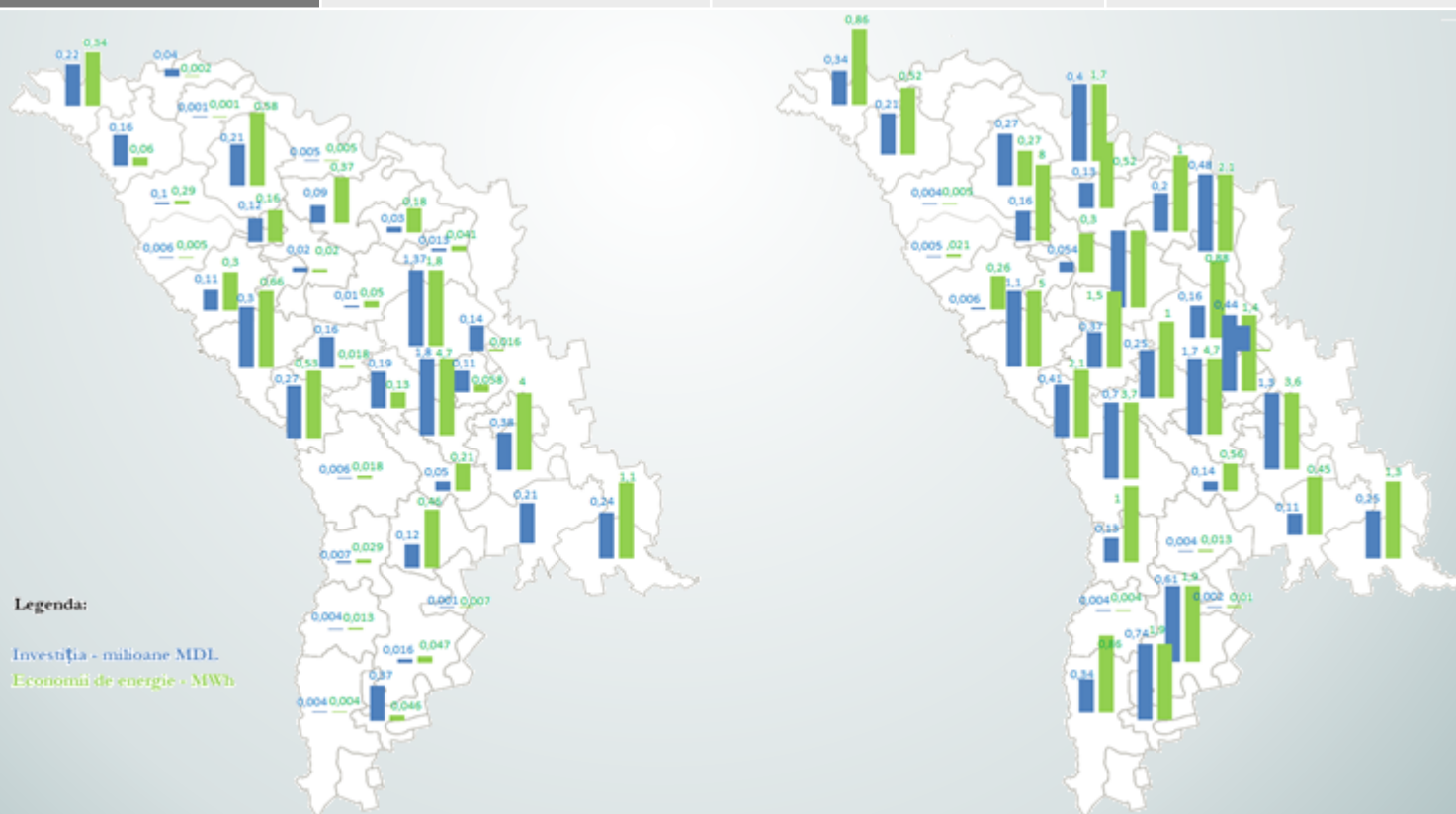
Energy Efficiency Fund - 27 MEuro (by 2015)



IMPLEMENTED PROJECTS IN EE&RES FIELDS

IN EE AND RES FIELDS IN 2014

Sector	No. of projects	Investments, M€	Energy savings, MWh
Industrial Sector	55	5,50	41.585
Public Sector	317	21,65	25.427
Residential Sector	1 328	4,00	7.414
TOTAL	1 700	31,0	> 74.426



EE&RES PROJECTS/ INVESTMENTS

CURRENT AND FURTHER ACTIVITIES

World Bank project on Chisinau DHS modernisation

40 M\$

initiated

EBRD Project on CHP North (Bălți City)
modernisation

10 MEUR

initiated

/partially financed by E5P/

Chisinau City Hall project on existing residential/ housing
fund rehabilitation

600 MEUR

initiated

EE and RES projects with E5P financial support

120 MEUR

initiated

Ungheni - Chișinău gaz pipeline construction

120 MEUR

initiated

RM-RO interconnections

/2 high voltage electric lines and BtB stations/

500 MEUR

RoM INVESTMENT POTENTIAL IN EE AND RES FIELDS

EE measures investment potential

~ 8,0 billions EURO

Needed investments in order to achieve national EE goal for 2020 year

~ 3,1 billions EURO

Thermal rehabilitation of Chisinau housing fund

~ 0,6 miliarde EURO

Thermal rehabilitation of governmental buildings

~ 0,25 miliarde EURO

Thermal rehabilitation of public buildings

~ 0,4 miliarde EURO

Procurement of energy efficient equipment, including by public sector

~ 0,3 miliarde EURO

RES projects investment potential

/in order to achieve the goal of 10% RES-E share in GFEC/

~ 0,2 billions EURO

EE & SER PROMOTION

MOLDOVA ECO-ENERGETICĂ NATIONAL CONTEST

2011-2012



2013-2014



2015



Moldova Eco Energetică

În spiritul dezvoltării durabile



Istorii
Eco Responsabile



Idei
Eco Responsabile



Tehnologii
Eco Responsabile

THANK YOU !