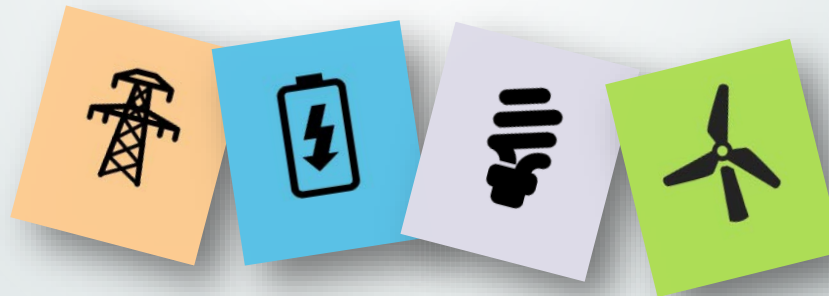




15th ENERGY EFFICIENCY COORDINATION GROUP MEETING

# EED TRANSPOSITION AND IMPLEMENTATION

MONITORING AND REPORTING



**Denis TUMURUC**

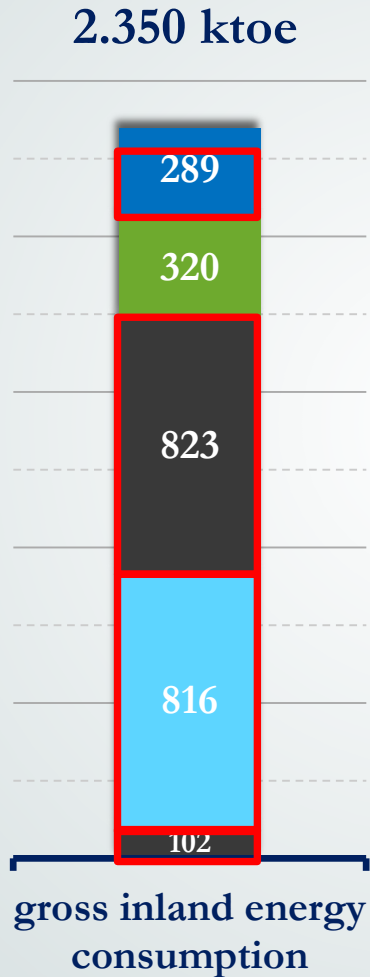
Deputy Head of Energy Policies Department  
Ministry of Economy and Infrastructure

# KEY ENERGY FIGURES

## ENERGY CONSUMPTION BREAKDOWN /2015 y./

  - IMPORT

- electricity
- biofuels
- petroleum products
- natula gas
- coal



2500  
/Mtep/

2000

1500

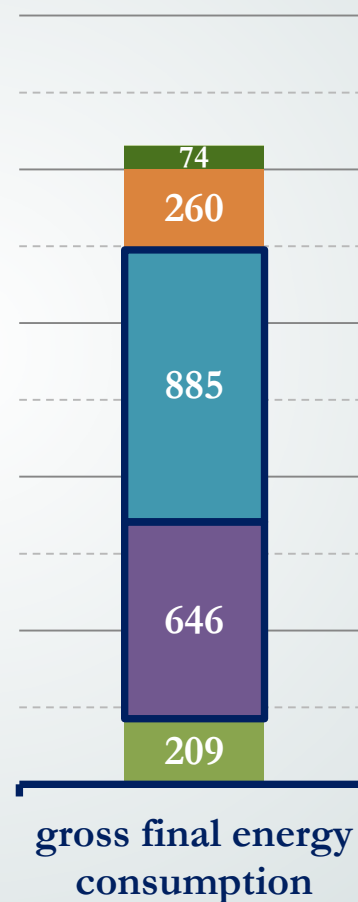
1000

500

0

2.074 ktoe

- industry
- transport
- residential s.
- public s. and services
- agriculture/ forestry



# ENERGY SECTOR SPECIFIC COSTS and figures

TARIFFS

	53-86 €/Gcal <i>or</i>	0,3 €/m <sup>3</sup> <i>or</i>	191 €/ton <i>or</i>
0,09-0,10 €/kWh	0,045-0,074 €/kWh	0,032 €/kWh	0,025 €/kWh



1.202  
kWh/cap.yr.

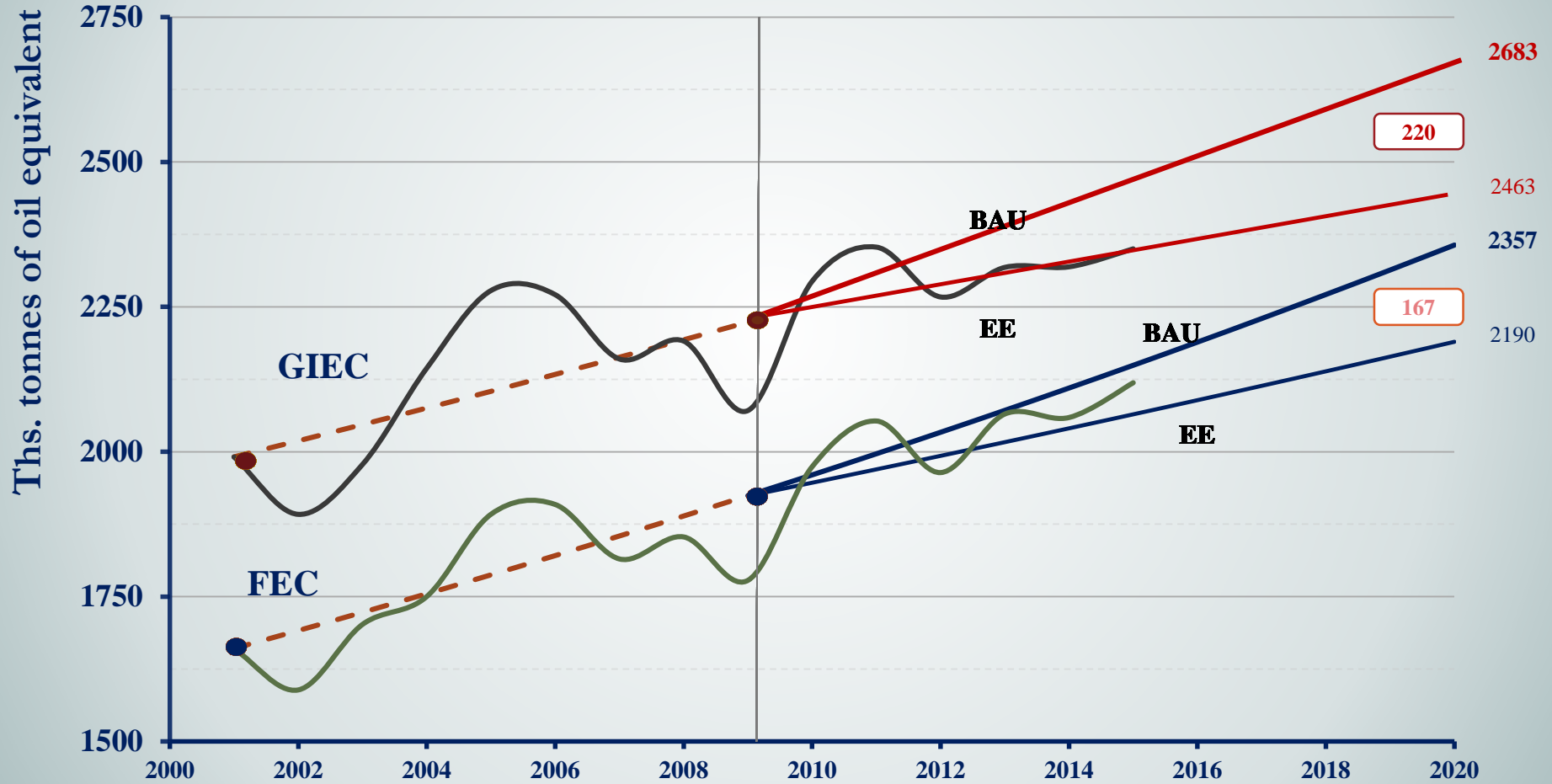
3.217  
kWh/cap.yr.

TOTAL - 9.132 kWh/cap.yr.

SPECIFIC  
CONSUMPTION

# ENERGY CONSUMPTION forecasts

GIEC AND GFEC forecasts / ACCORDING TO NEEAP 16-18 /



# NATIONAL ENERGY EFFICIENCY TARGET FOR 2020

<b>[Republic of Moldova] TARGETS [ktoe]</b>	2015 <sup>1</sup>	2016	2017	2018	2019	2020
<b>BUILDINGS /residential/</b>	38,7	<b>40,1</b>	46,45	53,81	62,33	<b>72,2</b>
<b>INDUSTRY</b>	8,6	<b>8,3</b>	9,63	11,17	12,96	<b>15,0</b>
<b>TRANSPORT</b>	19,6	<b>16,7</b>	19,34	22,39	25,92	<b>30,0</b>
<b>PUBLIC/ SERVICES</b>	7,4	<b>27,8</b>	32,20	37,29	43,18	<b>50,0</b>
<b>ARTICLE 3</b>	<b>74,3</b>	<b>92,9</b>	<b>107,6</b>	<b>124,6</b>	<b>144,4</b>	<b>167,2</b>
<b>ARTICLE 5<sup>2</sup></b>				0,21	0,42	0,64
<b>ARTICLE 7</b>			7,10	14,21	24,15	34,10
<b>FEC</b>	<b>2'074</b>	<b>2'102</b>	<b>2'123</b>	<b>2'145</b>	<b>2'167</b>	<b>2'190</b>
<b>PEC</b>	<b>2'350</b>	<b>2'373</b>	<b>2'395</b>	<b>2'417</b>	<b>2'440</b>	<b>2'463</b>

## Note:

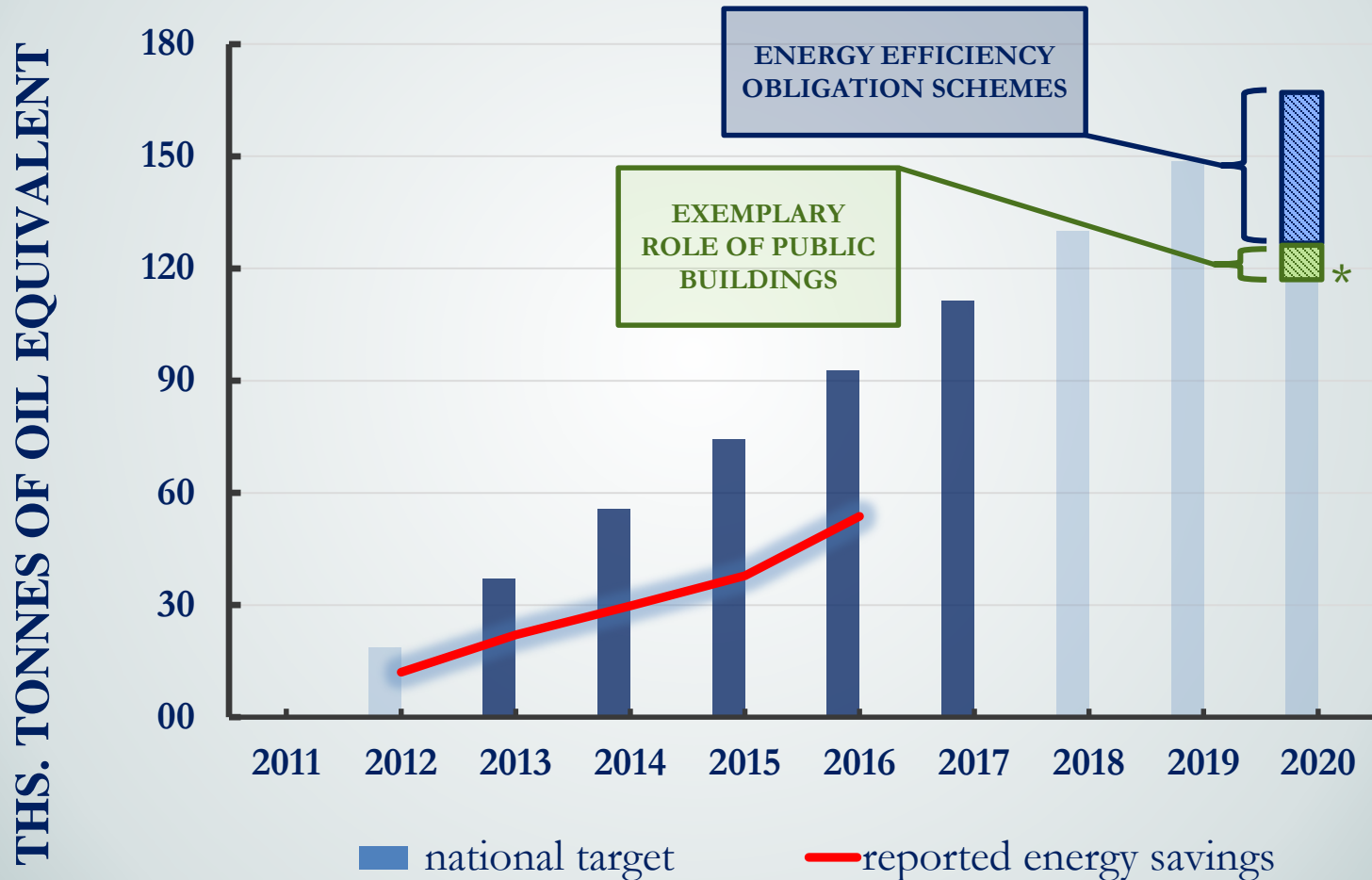
1 – Figures with Italic represent a projection of the energy savings to be achieved by 2020.

2 – Energy savings in public buildings owned and/ or occupied by central governmental bodies were assessed according to the information hold at 1<sup>st</sup> of June, 2017. A set of assumptions were accepted for calculating the target under art. 5, as average savings in kWh per m<sup>2</sup> per annum

3 – Energy savings assumed under art. 7 for 2017 could be re-distributed over next years according to the draft law on energy efficiency

# NATIONAL ENERGY EFFICIENCY TARGET BY 2020

## IN ABSOLUTE VALUES, ACCORDING TO NEEAP 2016-2018 VS ACHIEVED SAVINGS



Note: Energy savings to be achieved under art. 5 of the EED depends on the accepted assumptions

# ENERGY SAVINGS

## ACHIEVED ENERGY SAVINGS VS. SECTORIAL TARGETS

<b>National indicative target in 2020 (ktoe)</b>		<b>167.2 ktoe</b>		
<b>National intermediate indicative target in 2016 (ktoe)</b>		<b>92.9 ktoe</b>		
Sector division of target	Sector target (ktoe)		Achieved energy savings in 2016 (ktoe)	Estimated energy savings in 2020 (ktoe)
	2016	2020	From measures (BU)	From measures (BU)
Residential	40.1	72.2	1.4	77.3*
Public (services)	27.8	50.0	17.0	50.1
Industry	8.3	15.0	35.2	15.2
Transport	16.7	30.0	0.12	33.7
<b>Total (ktoe):</b>	<b>92.9</b>	<b>167.2</b>	<b>53.7</b>	<b>176.3</b>
<b>Total (GWh):</b>	<b>1,080.4</b>	<b>1,944.5</b>	<b>624,5</b>	<b>2,050.0</b>
<i>Percentage (%) (compared to ESD reference consumption)</i>	<b>5.0%</b>	<b>9.0%</b>	<b>2.9%</b>	<b>9.5%</b>

 - figures which require attention

# EE PROJECTS/ INVESTMENTS

## ONGOING AND FURTHER ACTIVITIES

World Bank project on Chisinau DHS modernisation

40 MUSD

**initiated**

EBRD Project on CHP North (Bălți City) modernisation  
/partially financed by E5P/

10 MEUR

**initiated**

Chisinau City Hall project on existing public buildings  
and residential/ housing fund rehabilitation

25 MEUR

**approved**

/EBRD and EIB financing, E5P grant component/

EE and RES projects pipeline with E5P financial support

150 MEUR

under  
development

EBRD's EE Programme in public sector

/with GCF or E5P contribution/

72,8 MEUR

under  
evaluation

UNDP's project "De-risking and unblocking EE  
investments in public and residential buildigs in the RoM"

/with GCF contribution/

86 MUSD

under  
evaluation

*Development Partners:*



European Bank  
for Reconstruction and Development



European  
Investment  
Bank



THE  
WORLD  
BANK



GREEN  
CLIMATE  
FUND



E5P



# FURTHER STEPS TOWARDS MORE EFFICIENT USE OF ENERGY IN THE BUILDING SECTOR

## ROLE OF EPBD AND EED

1. Development of the needed **legal framework**
  - on the energy performance of buildings
  - on energy efficiency (transposing the 27th EU Directive)
2. Development of a **national strategy on mobilising financial resources for public and residential buildings**
3. Improvement of the **residential buildings energy performance**
4. Improvement of the **public buildings energy performance** and strengthening the exemplary role of the public sector
5. Promotion of nearly zero energy buildings - **nZEB**
6. Increasing the **public awareness** about energy efficiency

**THANK YOU!**