XXIst ENERGY EFFICIENCY COORDINATION GROUP MEETING

DEVELOPMENT OF THE IIIrd NATIONAL ENERGY EFFICIENCY ACTION PLAN

Denis TUMURUC
Deputy Head of Energy Policies Department
Ministry of Economy and Infrastructure
LAW ON ENERGY EFFICIENCY
MAIN PROVISIONS AND HIGHLIGHT OF KEY ELEMENTS

I. **Capacity building** of the public authority responsible for implementing of EE & RES policy

II. The **exemplary role of the buildings** owned by public bodies

III. Compulsory **energy audit for large enterprises**

IV. **Obligation scheme in field of energy efficiency**

V. Capacity building of the **local energy managers**

VI. Strengthening the local **energy services market**

VII. Energy efficiency in **public procurements**

VIII. **Public awareness** on the energy efficiency importance
ENERGY EFFICIENCY LAW
STATE OF PLAY REGARDING EE LAW IMPLEMENTATION

• Regulation on the organization and operation of the authority responsible for the implementation of policies in the area of energy efficiency

• Regulation on the provision of energy services

• National Action Plan in the field of energy efficiency 2019-2021

• Program on implementing the requirement regarding the renovation of buildings of central public administration authorities

• Program on implementation of obligations scheme in the field of energy efficiency

• Methodology for the determination of contributions to be paid by the obligated parties

• Regulation on energy auditors and energy audits

• Regulation on conducting the energy audits by large enterprises

• Long term sectorial strategy for the renovation of the national real estate fund
NATIONAL ENERGY EFFICIENCY TARGETS
SET FOR 2020 HORIZON ACCORDING TO NEEAP AND EE LAW

Thousand tonnes of oil equivalent

220
167
2250
2500
2750
3000
3250

CFE

CIB

EE

BaU

220
167
2963
2968
3188


CFE

CIB

EE

BaU
NATIONAL ENERGY EFFICIENCY TARGETS (2)
MONITORING ACTIVITIES

<table>
<thead>
<tr>
<th>Year</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
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</thead>
<tbody>
<tr>
<td>Objectives</td>
<td>74,3</td>
<td>92,9</td>
<td>107,6</td>
<td>124,6</td>
<td>144,4</td>
<td>167,2</td>
</tr>
<tr>
<td>Results</td>
<td>56,9</td>
<td>83,5</td>
<td>102,9</td>
<td>122,7</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

- Contribution of local financial institutions (TD, ktoe)
- Contribution of other available instruments (BU, ktep)
- Annual savings (ktep)
NATIONAL 2020 ENERGY EFFICIENCY TARGETS
ACCORDING TO NEEAP PLANNING VS ACHIEVED SAVINGS

Note: Energy savings to be achieved under art. 5 of the EED depends on assumptions made.
## EE PLANNED ACTIVITIES AND MEASURES
### ACCORDING TO DRAFT NEEAP 2019-2021

<table>
<thead>
<tr>
<th>#</th>
<th>Sector addressed by EE measures</th>
<th>No. of measures</th>
<th>Budget/Cost</th>
<th>Energy savings /2020 yr./</th>
<th>Energy savings /total/</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Horizontal measures</td>
<td>9</td>
<td>---</td>
<td>n/a</td>
<td>n/a</td>
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<tr>
<td>2</td>
<td>Constructions sector</td>
<td>2</td>
<td>108 mEUR</td>
<td>6,7</td>
<td>21,1</td>
</tr>
<tr>
<td></td>
<td>/includes residential s.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Public sector</td>
<td>3</td>
<td>131,2 mEUR</td>
<td>8,4</td>
<td>22,7</td>
</tr>
<tr>
<td></td>
<td>/includes buildings, street lighting, water supply, etc./</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Industry</td>
<td>2</td>
<td>105 mEUR</td>
<td>22,2</td>
<td>68,1</td>
</tr>
<tr>
<td>5</td>
<td>Transport</td>
<td>2</td>
<td>13 mEUR</td>
<td>0,4</td>
<td>2,1</td>
</tr>
<tr>
<td>6</td>
<td>Energy sector</td>
<td>4</td>
<td>232 mEUR</td>
<td>4,7</td>
<td>18,1</td>
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<tr>
<td></td>
<td>/measures influencing both primary and final energy consumption are clearly distinguished/</td>
<td></td>
<td></td>
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</table>

Final energy savings 37,7 114

Primary energy savings 61,8 203
DRAFT NEEAP PLANNED ACTIVITIES
HORIZONTAL MEASURES

1. Measures to strengthen the capacities of local energy managers
2. Drafting and approval of subsidiary acts to EE law
3. Implementation of the M&V platform
4. EPC promotion (ESCO)
5. Promotion of energy auditing activities by big enterprises
6. Assessment of the high-efficient cogeneration potential
7. Assessment of the energy savings potential of power and natural gas distribution networks
8. Public awareness and communication activities
DRAFT NEEAP PLANNED ACTIVITIES
CONSTRUCTION & PUBLIC SECTORS

Measures planned for construction sector:
1. Elaboration and approval of the energy performance of buildings framework
2. Energy efficiency improvements in residential buildings

Measures planned for public sector:
1. EE improvements in public buildings
2. EE improvements in street lighting
3. EE improvements in the water supply sector
DRAFT NEEAP PLANNED ACTIVITIES
SMES, INDUSTRIAL & TRANSPORT SECTORS

Measures planned for **industrial** sector:

1. **Modernisation** of industrial sector
2. **Energy management** promotion and use/ implementation of EE **best practices**

Measures planned for **transport** sector:

1. Implementation of **EE measures** and activities in the transportation sector, including the approval of relevant legislation
2. Promotion of **EVs** and **E-mobility**
Measures planned for energy sector:

1. Improvement of the performance of existing district heating systems
2. Improvements of the efficiency of power and natural gas transportation and distribution
3. Improvements of the performance of electricity, natural gas and heating metering and billing
4. Update of the existing assessment of the high-efficient cogeneration potential
## FINANCIAL SUPPORT FOR NEEAP IMPLEMENTATION

### CURRENTLY IMPLEMENTING PROJECTS

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Cost</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Efficiency improvement project SACET Chisinau / Financed by the IBRD</td>
<td>40.5 M$</td>
<td>under implementation</td>
</tr>
<tr>
<td>CET Nord Efficiency Improvement Project/ SACET Balti / Financed by the EBRD and E5P Fund</td>
<td>10.7 MEUR</td>
<td>under implementation</td>
</tr>
<tr>
<td>Rehabilitation of the electrical transmission networks of TSO SA Moldelectrica / Financed by the EBRD, EIB and EU NIF</td>
<td>39.3 MEUR</td>
<td>under implementation</td>
</tr>
<tr>
<td>Energy Efficiency and Thermal Public Building Refurbishment Project in Chisinau / Financed by the EBRD, EIB and E5P contribution</td>
<td>25 MEUR</td>
<td>under implementation</td>
</tr>
</tbody>
</table>

**TOTAL approx. 110 MEUR**

*Development Partners:*
FINANCIAL SUPPORT FOR NEEAP IMPLEMENTATION
UPCOMING PROJECTS AND FINANCING PROGRAMS

Implementation of EE and RES projects financed by E5P Fund

/Includes a grant component of approx. 30 MEUR/

EBRD’s Green Cities/ GEFF Programme

~30 MEUR

under evaluation

Moldova Energy Efficiency Project

/with EIB, EBRD and NIF contribution/

75,0 MEUR

under development

TOTAL approx. 255 MEUR

Development Partners:
VĂ MULȚUMESC!