Ukrainian experience in setting Energy Efficiency Governance

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Ukraine - Key Facts (2015)

- **Area:** 603,628 km²
- **Population:** 45.15 mln
- **GDP PPP:** 313.82 bln 2010 USD

TPES: 90,1 Mtoe

FEC: 50,8 Mtoe
Energy Intensity of Ukraine

Total primary energy supply (TPES)/Gross Domestic Product (PPP):

<table>
<thead>
<tr>
<th>Year</th>
<th>Romania</th>
<th>Germany</th>
<th>Azerbaijan</th>
<th>Lithuania</th>
<th>Poland</th>
<th>Hungary</th>
<th>Slovak Republic</th>
<th>Bulgaria</th>
<th>Belarus</th>
<th>Ukraine</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>0.08</td>
<td>0.09</td>
<td>0.09</td>
<td>0.1</td>
<td>0.1</td>
<td>0.11</td>
<td>0.11</td>
<td>0.15</td>
<td>0.16</td>
<td>0.29</td>
</tr>
<tr>
<td>2020</td>
<td>0.2</td>
<td>0.2</td>
<td>0.2</td>
<td>0.2</td>
<td>0.2</td>
<td>0.2</td>
<td>0.2</td>
<td>0.2</td>
<td>0.2</td>
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</tr>
<tr>
<td>2025</td>
<td>0.18</td>
<td>0.18</td>
<td>0.18</td>
<td>0.18</td>
<td>0.18</td>
<td>0.18</td>
<td>0.18</td>
<td>0.18</td>
<td>0.18</td>
<td>0.18</td>
</tr>
<tr>
<td>2030</td>
<td>0.15</td>
<td>0.15</td>
<td>0.15</td>
<td>0.15</td>
<td>0.15</td>
<td>0.15</td>
<td>0.15</td>
<td>0.15</td>
<td>0.15</td>
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<tr>
<td>2035</td>
<td>0.13</td>
<td>0.13</td>
<td>0.13</td>
<td>0.13</td>
<td>0.13</td>
<td>0.13</td>
<td>0.13</td>
<td>0.13</td>
<td>0.13</td>
<td>0.13</td>
</tr>
</tbody>
</table>

toe / 1000 USD (2010)
IEA data

http://saee.gov.ua
Ukraine & Energy Community

- Protocol of Accession – 24.09.2010
- Officially acceded as Contracting Party – 01.02.2011

http://saee.gov.ua
Institutional Development of Ukrainian Authorities in EE Field

- **1995** - Creation of the State Committee on Energy Saving
- **1996** - Creation of the State Inspection on Energy Saving
- **1999** - Creation of the Central Group of Energy Audit
- **2005** - Reorganization of the State Committee on Energy Saving into the National Agency of Ukraine for Efficient Energy Resources Management (NAER)
- **2011** - Reorganization of the NAER into the State Agency on Energy Efficiency and Energy Saving of Ukraine (SAEE), Liquidation of the State Inspection on Energy Saving

http://saee.gov.ua
Public Bodies Relevant to EE

- Ministry of Energy and Coal Industry of Ukraine
  - EE in electricity, gas, and oil industry
- Ministry of Regional Development, Construction and Housing and Communal Services of Ukraine
  - EE in buildings
- Ministry of Ecology and Natural Resources of Ukraine
  - EE in buildings
- Ministry of Infrastructure of Ukraine
  - EE in transport
- National Commission for State Regulation of Energy and Public Utilities
  - Reducing CO2 emissions

http://saee.gov.ua
SAEE Organizational Structure

SAEE Reorganization in 2015:

• Liquidation of 26 territorial departments
• Staff reduction – 43%

http://saee.gov.ua
the central executive authority
governed and coordinated by the Cabinet of Ministers of Ukraine through the Vice Prime Minister of Ukraine, Minister of Regional Development, Building and Housing and Communal Services of Ukraine (before 2014 was subordinate to the Ministry of Economic Development and Trade of Ukraine)

Main tasks:
• Implement state policy in the areas of efficient consumption of fuel and energy resources, energy saving, renewable energy sources and alternative fuels
• Ensure increase of share of renewable energy sources and alternative fuels in energy balance of Ukraine
SAEE Competence:

• **Legislative acts and draft laws development**, including state norms, rules, technical regulations and standards in the field of efficient use of fuel and energy resources, energy saving, renewable energy and alternative fuels;

• Development, coordination and control of the implementation of **state target programs**;

• **Administrative services**, including:
  - qualification of cogeneration units;
  - Issuance of certificates on alternative fuels;
  - monitoring the effective use of fuel and energy resources, renewable energy and alternative fuels;
  - maintaining the system of energy labeling of household electrical equipment;

• Conclusion of **international interagency agreements**;

• Ensuring **adaptation of national legislation** to EU legislation (in particular Association Agreement between EU and Ukraine in the field of efficient use of fuel and energy resources, energy saving, renewable energy sources and alternative fuels);

• **Information activities** on popularizing economic, environmental and social advantages of efficient use of fuel and energy resources, energy saving, renewable energy sources and alternative fuels.
3 Energy Efficient Partnership Forums Were Held

<table>
<thead>
<tr>
<th>Forum</th>
<th>Year</th>
<th>Theme</th>
<th>Participants</th>
<th>MoU Signed</th>
<th>Conferences</th>
<th>ESCO Contracts</th>
<th>Municipalities Implemented</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>2015</td>
<td>«Warm» loans and regional programs</td>
<td>400</td>
<td>25</td>
<td>23</td>
<td>304</td>
<td>473</td>
</tr>
<tr>
<td>2nd</td>
<td>2016</td>
<td>ESCO-mechanism</td>
<td>500</td>
<td>41</td>
<td>20</td>
<td>10000</td>
<td>9 regions, 68 cities, 3 municipalities</td>
</tr>
<tr>
<td>3rd</td>
<td>2017</td>
<td>Energy management</td>
<td>600</td>
<td>37</td>
<td>13</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
UAMAP - information on 43 implemented and 40 potential projects that require investments & soft loans in amount of 700 mln EUR

www.uamap.org.ua
Energy efficiency and renewable energy policy impact on macroeconomic stability

Expected results:

- Optimization of the National Balance of Payments
- Creation of highly-technological jobs
- Prevention of energy poverty of population and municipalities
- Stabilization of national currency
- Fulfillment of international obligations in power sector and climate change

In 2020 Ukraine will save and substitute energy resources for 2,7 bln USD or - 8,7% of estimated State Budget-2020 expenditures

Energy Efficiency and Renewable Energy Action Plans implementation would result in additional GDP growth up to 0,5-1% per year

Modeling by Institute for Economics and Forecasting (National Academy of Science of Ukraine)

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Thank you!

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