Eco design framework
- Montenegro example -

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EECG Meeting - Vienna, 10th June 2020
Content

- Legal setup
- Institutional setup
- Impact
Legal setup

- **Law on Efficient Use of Energy** (from April 2019) regulates EE on side of final energy consumption and represent legal basis for eco design:
  - Introduce energy related products in respect to the new EU directives (Art. 44);
  - Require that products meet eco-design requirements (Art. 48),
  - Define obligations of different economy operators (producers, suppliers, dealers etc.) (Art. 45-47),
  - Prescribe requirement for market surveillance (Art. 52).

- Law on technical requirements for products and conformity assessment

- Law on inspection control
Legal setup - harmonization

- Requirements of the Directive 2009/125/EC establishing a framework for the setting of eco design requirements for energy-related products were transposed by:
  - Law on Efficient Use of Energy (from 2019) – main provisions,
  - Rulebook on eco-design requirements of energy related products (from 2016/updated in 2018) - full alignment.

- Transposition of the specific implementing measures (regulations) for different groups of products is achieved through by-laws (rulebooks).

- So far 25 rulebooks is adopted (additional 9 in comparison to 2018).

- Priority for transposition should be defined on the basis of the several criteria: relevance for the country; impact on the market; contribution to the energy savings; local production etc.
## ERPs by-laws (adopted/planned)

<table>
<thead>
<tr>
<th>Products</th>
<th>Adoption/Application</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>16 groups of products is covered in 2017:</strong> All types of lamps, Electric motors, Refrigerators, Air conditioners, Washing machines, Dishwashers, Appliances in stand-by mode, External power supplies, Simple set-top boxes, Fans, Water pumps, Circulators and Laundry dryers</td>
<td>• Adopted in 2017&lt;br&gt;• Non directional lamps and fluorescent lamps applies from July 2018, others from Jan 2019</td>
</tr>
<tr>
<td><strong>9 groups of products is covered in 2019:</strong> Space and water heating products, Computers and servers, Power transformers, Vacuum cleaners, Ventilation units</td>
<td>• Adopted in 2019&lt;br&gt;• Applies from Jan/June 2020</td>
</tr>
<tr>
<td><strong>3 groups of products planned for 2020:</strong> Ovens, hobs and range hoods; Air heating products, cooling products, high temperature process chillers and fan coil units; Refrigerated storage cabinets, blast cabinets, condensing units and process chillers</td>
<td>• Planed for 2020&lt;br&gt;• Application in accordance with given timetables</td>
</tr>
</tbody>
</table>
## Institutional setup

### Transposition

<table>
<thead>
<tr>
<th>Nomination of the relevant authority at the national level</th>
<th>Ministry of Economy/Directorate for Energy and Energy Efficiency</th>
</tr>
</thead>
</table>
| Involvement of relevant bodies in the process of development of the legal/regulatory framework | • Ministry for Sustainable Development and Tourism - for transposition of the main framework directives  
• Technical faculties in Montenegro - transposition of specific regulations (technical regulations),  
• Institute for Standardization - adoption of relevant standards  
• Chamber of Economy - public consultation with producers/dealers of energy related products |

### Implementation

| Market surveillance | • Market inspection – nominated as responsible market surveillance body  
• Capacity building of the inspectors and inspection on the site |
Market surveillance

- Capacity building market inspection is supported under REEP/REEP +
  - 3 workshop are organized (2018/2019) covering different technologies (lamps, air-conditioning, refrigeration);
  - Important to cover also energy labeling;
  - Priorities need to be defined - for smaller economies it is impossible to cover all groups of products.

- Team building meetings of the Market Inspection – harmonization of the procedures

- Exchange of the information with other relevant entities (Market Inspection from Croatia, experts under REEP+ etc.) – to be expanded in future

- Possibility to access to the information in EU Reporting system would facilitate work of market inspection
Effects on energy savings (4th EEAP)

<table>
<thead>
<tr>
<th>Group of products</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Televisions</td>
<td>0,00</td>
<td>0,00</td>
<td>0,01</td>
<td>0,04</td>
<td>0,07</td>
</tr>
<tr>
<td>Refrigerators</td>
<td>0,00</td>
<td>0,11</td>
<td>0,39</td>
<td>0,77</td>
<td>1,14</td>
</tr>
<tr>
<td>Lamps</td>
<td>0,35</td>
<td>0,69</td>
<td>3,50</td>
<td>6,34</td>
<td>9,14</td>
</tr>
<tr>
<td>Washing machines</td>
<td>0,00</td>
<td>0,03</td>
<td>0,24</td>
<td>0,47</td>
<td>0,71</td>
</tr>
<tr>
<td>Dishwashers</td>
<td>0,00</td>
<td>0,01</td>
<td>0,04</td>
<td>0,10</td>
<td>0,19</td>
</tr>
<tr>
<td>Air conditioners</td>
<td>0,00</td>
<td>0,99</td>
<td>2,47</td>
<td>4,45</td>
<td>6,44</td>
</tr>
<tr>
<td>Water heaters</td>
<td>0,00</td>
<td>0,00</td>
<td>0,24</td>
<td>0,53</td>
<td>0,92</td>
</tr>
<tr>
<td>Space heaters</td>
<td>0,00</td>
<td>0,00</td>
<td>0,38</td>
<td>1,14</td>
<td>2,28</td>
</tr>
<tr>
<td>Total</td>
<td>0,35</td>
<td>1,83</td>
<td>7,27</td>
<td>13,83</td>
<td>20,89</td>
</tr>
</tbody>
</table>
Conclusions

- Introduction of eco design requirements is the most effective measure for achieving energy and CO₂ savings because it makes real change of the market of the energy related products;
- Effects of eco design depends on proper implementation – proper legal and institutional setup
THANK YOU FOR YOUR ATTENTION!

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