Monitoring, Verification and Enforcement – Improving compliance with Energy Efficiency Policies for Appliances and Equipment

27th ENERGY EFFICIENCY COORDINATION GROUP MEETING AND WORKSHOP

Juraj Krivošík, SEVEn, The Energy Efficiency Center
17 November 2021
Energy labels and ecodesign in EU

• **Energy labels – consumer choice** = 15 product groups

• **Ecodesign – minimum performance** = 31 product groups
New energy labels in 2021

• New energy labels in the EU since March 2021:
  Household refrigerators and freezers
  Washing machines and washer-dryers
  Dishwashers
  TVs and electronic displays

• New energy labels since September 2021:
  Light Sources

• New figures, new icons plus the QR code and new test procedures

• More to come later:
Studies consistently show the scope of economic losses due to non-compliance.

Economic loss estimate if just 6% energy is lost due to noncompliance (2009):

- Armenia: 250 GWh, $25 million
- Azerbaijan: 1100 GWh, $110 million
- Belarus: 1,700 GWh, $170 million
- Georgia: 370 GWh, $37 million
- Kazakhstan: 2,200 GWh, $220 million
- Kyrgyzstan: 560 GWh, $56 million
- Moldova: 305 GWh, $30 million
- Mongolia: 159 GWh, $15 million
- Russian Federation: 33,000 GWh, $3,300 million
- Tajikistan: 880 GWh, $88 million
- Turkmenistan: 380 GWh, $38 million
- Ukraine: 7,400 GWh, $740 million
- Uzbekistan: 2,400 GWh, $240 million

TOTAL: 50,700 GWh, ~EUR 5 bn

Estimated 10% of energy lost in the EU due to non-compliance (2014):

- 25 - 50%: Global estimate of non-compliant products (Ellis, 2012)
- 10 - 20%: Ecodesign related non-compliant products (CSES, 2012)
- 10%: Value of energy lost, global (Waide, et al., 2011)
- 15%: Label and ecodesign non-compliant products (Defra, 2009)
- 25%: Non-compliant products concerning missing label declarations at sales points (Defra, 2009)
- 21%: Refrigerators, products non-compliant, - energy class declaration - some requirement (ATLete, 2011)
- 33 - 38%: Products offered for sale without label display Products with partial or incorrect label display (Come On Labels, 2013 b)
- 11-14%: Denmark, non-compliant products based on tests of various product groups (DEA, 2012; Atlete, 2011; Atlete II, 2013b)
- 20 - 73%: UK, non-compliant products based on tests of various product groups (IEA, 2010; Atlete, 2011; Culling, 2010; Waide et al., 2011)
- 0 - 27%: Netherlands, non-compliant products based on tests of various product groups (Presutto, 2013)
- 25%: Spain, non-compliant products based on RENOV plan subsidy scheme (Waide, et al., 2011)

=> It is cost effective for societies to ensure market surveillance

=> Impacts can be broadened by targeted actions, trainings, int'l. cooperation, etc.
## Existing S&L legislation & regulations

### Framework Regulation

<table>
<thead>
<tr>
<th>Framework</th>
<th>Lighting</th>
<th>Space heaters</th>
<th>Fridges and freezers</th>
<th>Vacuum cleaners</th>
<th>Washing Machines &amp; dryers</th>
<th>Air-co and fans</th>
<th>Televisions</th>
<th>Dishwashers</th>
<th>Ovens &amp; range hoods</th>
<th>Standby</th>
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### Labelling & Ecodesign

- **Labelling & Ecodesign**
- **Labelling**
- **Ecodesign only**
- **Labelling only**

**Source:** Project survey 12/2020 – 1/2021 and EnCS input
Summary of feedback received

• Most countries align their legislation with the EU and are aware of the upcoming changes to the new labels

• No product testing in the region at all

• No local laboratories available and no testing abroad (due to costs, procurement rules, unavailable legislation)

• Very limited store surveys

• Varied staff resources

• Interest to communicate with stakeholders
General recommendations

Possible focus of regional activities:

A. Guidelines for suppliers and retailers
B. Networking facility / communication platform
C. MVE support tools
D. Adoption of legislation
E. Technical capacity training and implementation
Examples of some opportunities:

A. Guidelines for suppliers and retailers

B. Networking facility / communication platform
Guidelines for suppliers and retailers

- Guides to explain proper energy label display in online and physical stores – practical explanation of (EU) legal requirements
- To be translated into local languages and adapted
- Distribute with business associations
- Prevent noncompliance at retailer stores
- Very impactful and cost-effective measure
Networking facility / communication platform

- MSA Working group
- Online meetings 2x/year
- Opportunities to discuss (EU) legislation and specific cases,
- share experience,
- communicate with EU counterparts,
- consider common actions
Summary of findings

- New summary document by the EBRD and ENCs
- Overview of market surveillance and product compliance benefits
- Selected key tips for practical actions
- Suitable for further use and disseminations
Thank you

Improving Compliance with Energy Efficiency Policies and Programs for Appliances and Equipment

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Disclaimer: The content of this presentation results from a project organised with the support of EBRD but it takes no responsibility on the usage data and is not responsible for adaption of any recommendations that may be made of the information contained in it.
About SEVEn


Independent not-for-profit consultancy focusing on energy efficiency.

Established in 1990 with the mission of protecting the environment and promoting economic development through more efficient use of energy.

Long term engagement in:

• Energy efficiency and labelling of products, including market surveillance
• Policies, legislative updates, analys & technical reports, energy audits, energy performance contracting, etc,
• Active in the Czech republic, as well as in international projects with a focus on Central and Eastern Europe