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

26th ENERGY EFFICIENCY COORDINATION GROUP MEETING AND WORKSHOP

Juraj Krivošík, SEVEn, The Energy Efficiency Center 23 June, 2021



About SEVEn



SEVEn, The Energy Efficiency Center – www.svn.cz

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



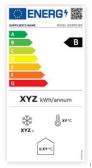
Energy labels and ecodesign in EU



 Energy labels – consumer choice= 15 product groups







 Ecodesign – minimum performance = 31 product groups

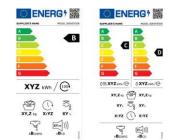


New energy labels in 2021



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:



How much energy and value lost due to non-compliance?



Studies consistently show the scope economic losses due to non-compliance

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

Table 2.1: Indicative Savings Potential from EE S&L in CIS Countries

Country	Indicative projections of EE S&L savings						
	Annual electricity savings	Annual monetary savings					
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	300 GWh	\$30 million					
Mongolia	160 GWh	\$16 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 b					

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

Non- compliance	Note	Source			
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% 54%	Refrigerators, products non-compliant, - energy class declaration - some requirement	ATLETE, 2011			
33 - 38% 11-14%	Products offered for sale without label display Products with partial or incorrect label display	Come On Labels, 2013 b			
0 - 60%	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., 201; CLASP, 2010			
0 - 27%	Netherlands, non-compliant products based on tests of various product groups	Presutto, 2013b			
25%	Spain, non-compliant products based on RENOVE 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, intl. cooperation, etc.

MVE Policy Support

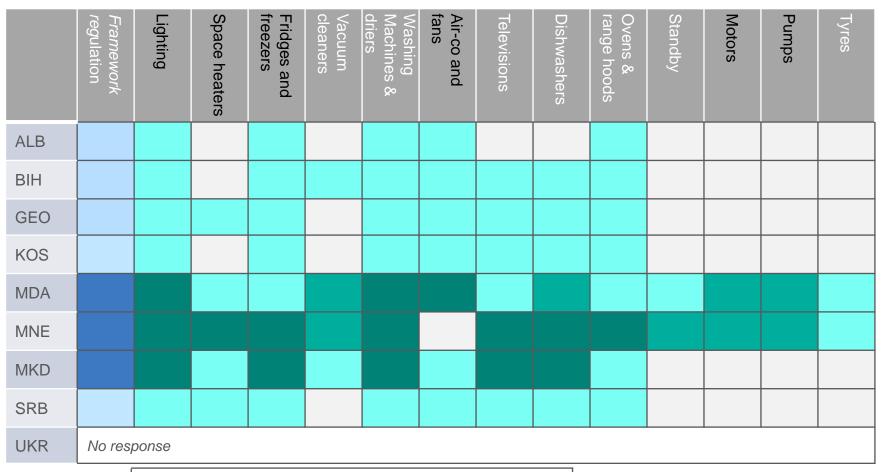


MVE – emerging key area for policy support

- Scoping study (EBRD-funded) launched December 2020 to explore options for effective opportunities to work with governments and relevant stakeholders to set up and/or strengthen MVE frameworks
 - Thanks to ALB, BiH, GEO, KOS, MDA, MNE, MKD, SRB representatives for providing feedback!

Existing S&L legislation & regulations





Framework Regulation

Labelling & Ecodesign

Labelling

Ecodesign only

None

Labelling only

Source: Project survey 12/2020 – 1/2021

Black: EBRD Technology selector examples

KEY

Areas of interest for collaboration



What are the preferred areas of collaboration?									
	ALB	BiH	KOS	MKD	GEO	MDA	MNE	SRB	UKR
Assistance in adaption of									
legislation									
Technical capacity training for									
specific technical aspects									
Providing best practice and									
benchmark examples from other									
jurisdictions									
Support in preparing internal									
guidelines and procedures									
Support in preparing guidelines									
for industry professionals and/or									
the general public									
Assistance in international									
collaboration									
Other: (please describe)									

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



Further engagement with countries on national level, and through regional initiatives

Possible engagement and support areas:

- policy, technical, capacity support for institutions
- testing and standardisation harmonisation and synergies
- cross-country cooperation and opportunities

Next steps: Regional initiatives



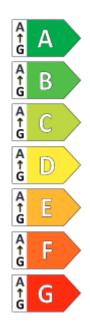
Possible focus of regional activities:

- A. Guidelines for suppliers and retailers
- B. EU networking
- C. MVE support tools
- D. Adoption of legislation
- E. Technical capacity treaining and implementation

Please indicate your preference (by typing the letter) in the chat box.

Thank you





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

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