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

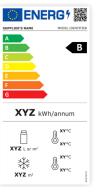


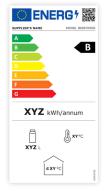
# Energy labels and ecodesign in EU

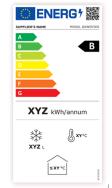


Energy labels – consumer choice= 15 product

groups







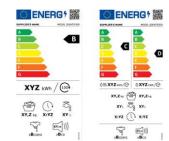
 Ecodesign – minimum performance = 31 product groups

# 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:













# 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	
Kazaklıstan	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		

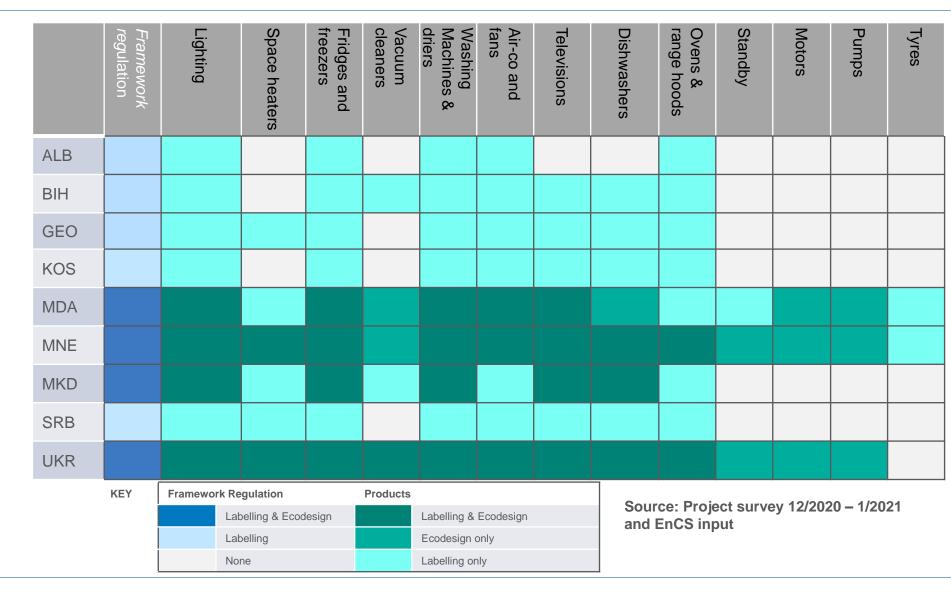
Estimated 10% of energy lost in the EU due to non-compliance (2014):

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 <u>targeted actions</u>, <u>trainings</u>, <u>intl. cooperation</u>, etc.

### Existing S&L legislation & regulations





## 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 treaining 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 laguages 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 counterpartners,
- 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

### Monitoring, Verification and Enforcement -**Improving Compliance** with Energy Efficiency **Product Policies**





- the circular economy context, by promoting durability, reparability and recyclability of products, and increasing their energy and resou

Compliance and market verification a failure. Prevention of product no

### Energy labels show stans



### Ecodesign requirements set the

### Authorities can increase the

### n compliance

nitoring the presence of energy els in shops.

arations and provide

### ınd ecodesign ridual countries

and product testing. They represent a small propurings, which defines



Situation in the

At an average price of € 0.15/kWh





rification and enforcement of quirements brings savings to siness, and improved public

therefore support a full scope

supporting countries' energy



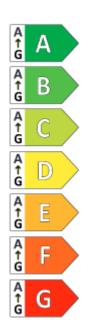


SEVEN/2000

ne Contracting Parties (Albania

### Thank you





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

Juraj Krivošík



**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



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

