



The European Union – Turkmenistan Sustainable Energy Days

Lectures faculty members and students of the State Energy Institute of Turkmenistan
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Ecodesign and energy labelling of electric appliances – prospects and challenges

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Ecodesign and energy labelling requirements

- Ecodesign sets common EU wide minimum standards to eliminate the least performing products from the market.
- The EU legislation for energy labels and ecodesign has been estimated to bring energy savings of approximately 230 million tonnes of oil equivalent (Mtoe) by 2030.
- For consumers, this means an average saving of up to €285 per year on their household energy bills.
- Moreover, energy efficiency measures will create €66 billion in extra revenue for European companies.





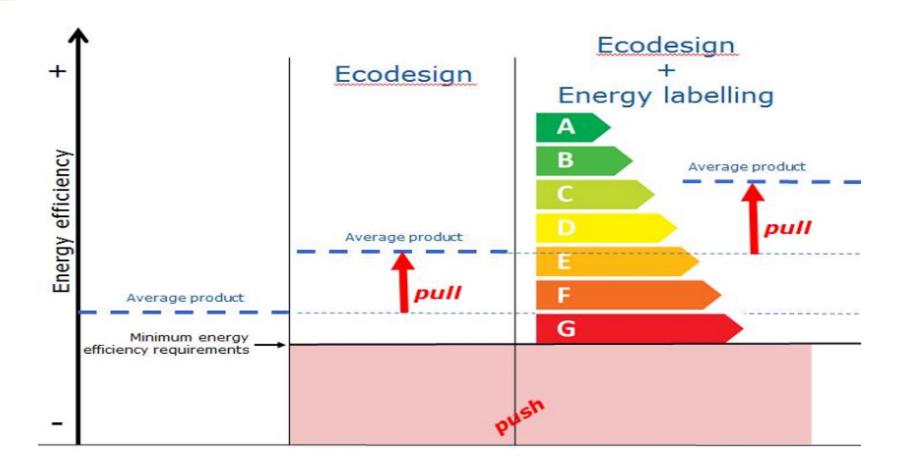


Figure 2: Effect of Ecodesign alone and when combined with Energy Labelling





Energy labelling and ecodesign

Energy labelling framework

Regulation (EU) 2017/1369 15 product groups

Ecodesign requirements

Directive 2009/125/EC 31 product groups





Energy labelling and ecodesign requirements

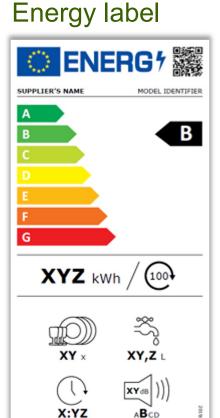
Product groups	Products	E-labelling	Ecodesign
Lighting	Light sources	X	X
Heaters	Local space heaters	X	X
	Space and water heaters	X	X
	Solid fuel boilers	X	X
	Air heating and cooling products		X
Refrigeration	Refrigerators and freezers	X	X
	Professional refrigerators	X	X
	Refrigerators with direct sales function	X	X
Vacuum cleaners	Vacuum cleaner		X
Washing machines and driers	Washing machines and washer-dryers	X	X
	Tumble driers	X	X
Air conditioners and fans	Air conditioners and comfort fans	X	X
	Industrial fans		X
	Ventilation units	X	X
	Air heating and cooling products		X
Off mode, standby and networked standby	Off mode, standby and network standby		X

Energy labelling and ecodesign requirements

Product groups	Products	E-labelling	Ecodesign
Electronic displays and TV boxes	Electronic displays including televisions	X	X
	Set-top boxes		X
Kitchen appliances	Cooking appliances	X	X
	Dishwashers	X	X
Pumps	Water pumps		X
	Circulators		X
Transformers and converters	Power transformers		X
	External power supplies		X
Computers and servers, imaging	Computers and small servers		X
equipment, game consoles	Servers and data storage products		X
	Imaging equipment		X
	Game consoles		X
Electric motors and welding equipment	Electric motors		X
	Welding equipment		X
Tyres	Tyres	X	

Energy labelling requirements

Clearly regulated – what, how, where to present in shops and e-commerce



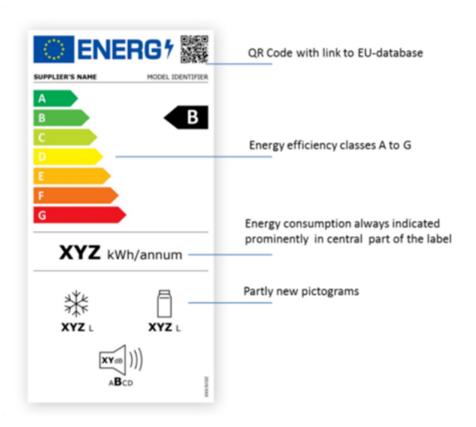
Product information sheet

Product Information Sheet Commission Delegated Regulation (UU) 2019 /2017						
SUPPLER'S NAME OR TRACEMARK: BRAND NAME						
MODEL IDENTIFIER ANCIZERS						
GENERAL PRODUCT PARAMETERS:						
PARAMETER	VALUE	PARAMETER	WILLE	WALK		
RATED CAPACITY (PS)	14	DIMENSIONS IN CM	HEIGHT	85		
			WIDTH	59		
			DEPTH	60		
00	40	ENERGY EFFICIENCY CLASS	¢			
CLEANING PERFORMANCE INDEX	ts.	DRYING PERFORMANCE	12			
ENERGY CONSUMPTION IN LIMIT PER CYCLE, BASED ON THE ECO PROGRAMME USING COLD WATER FILL ACTUAL ENERGY CONSUMPTION WILL DEPEND ON HOW THE APPLIANCE IS USED.	0.75	WINTER CONSUMPTION IN LITTERS (PER CYCLE), BASED ON THE ECO PROGRAMME. ACTUAL WARRIER CONSUMPTION WILL DEPEND ON HOW THE APPLIANCE IS USED AND ON THE HAMPINESS OF THE WATER.	13			
PROGRAMME DURATION (furnity)	3.42	TYPE	FREE-STANDING			
AIRBORNE ACOUSTICAL NOISE EMISSIONS-(HB/A) RE 1 pW)	44	AIRBORNE ACOUSTICAL NOISE EMISSION CLASS				
OFF MODE (W)		STANDBY MODE (W)	6.5			
DELAY START (W) (IF APPLICABLE)	1	NETWORKED STANDBY (W) (IF APPLICABLE)	2			
MINIMUM DURATION OF THE GUARANTEE OFFERED BY THE SUPPLIER 34 MONTHS						
ADDITIONAL INFORMATION						
MEBLAIK TO THE SUPPLER'S WEBSITE, WHERE THE INFORMATION IN POINT 6 OF ANNEX B TO COMMISSION REGULATION (BU) 2019 / 2022 IS FOUND; https://www.brandhume.la/						





Rescaling of energy labels



The first four product categories covered by the new energy label as of 1 March 2021 are

- i) fridges and freezers, including wine storage fridges,
- ii) dishwashers,
- iii) washing machines and washer-dryers, and
- iv) television sets and other external monitors, such as computer displays,

From 1 September 2021, the new labels also applies to light bulbs and lamps with fixed light sources.

The energy label framework regulation foresees that the next group of products to be addressed will be

- i) tumble driers,
- ii) local space heaters,
- iii) air conditioners,
- iv) cooking appliances,
- v) ventilation units
- vi) professional refrigerator units,
- vii) space and water heaters, and
- viii) solid fuel boilers.





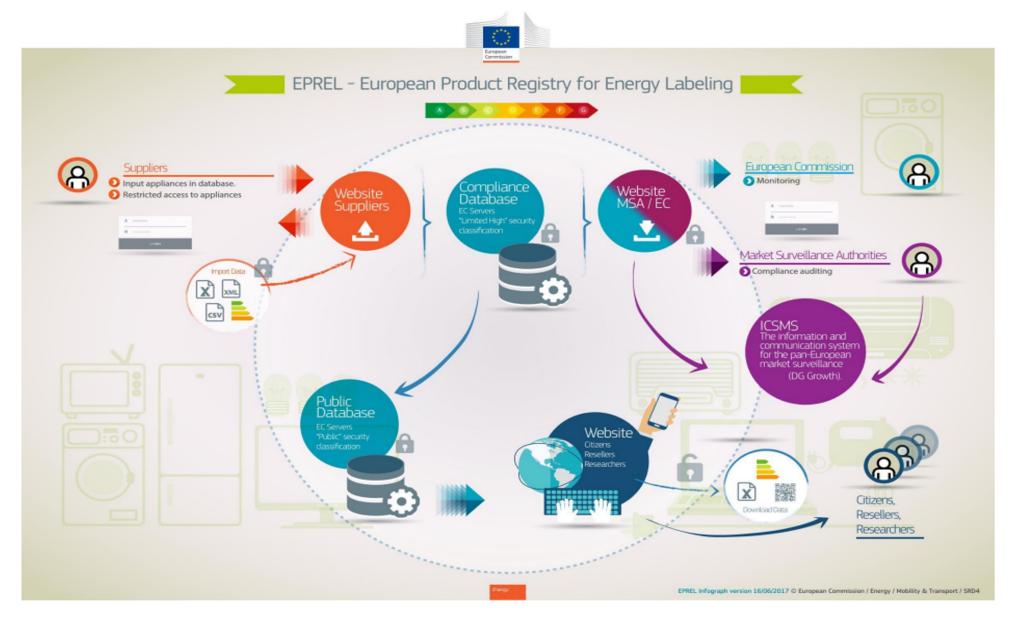
EPREL database



The European Product
Database for Energy
Labelling (EPREL) has been
set up in EU, to provide
important energy efficiency
information to consumers. It
will also enhance market
surveillance activities and
enforcement.











Eco-design requirements

establishes a framework for ecodesign requirements for energy-related products;

contributes to sustainable development by increasing energy efficiency and the level of protection of the environment, while at the same time increasing the security of the energy supply;

supports industrial competitiveness and innovation by promoting better environmental performance of products throughout the internal market.





Product specific directives

The ecodesign requirements for individual product groups are created under the EU's ecodesign directive.

The EU legislation on ecodesign is applicable on 31 of the product groups.

As an alternative, industry sectors may also sign voluntary agreements to reduce the energy consumption of their products.

The Commission formally recognizes such agreements and monitors their implementation.





Product specific directives

On 1 October 2019, <u>10 measures were adopted</u> by the Commission for the product categories listed below:

washing machines and washer-driers

dishwashers

electronic displays

household refrigerators

light sources

refrigerators with a direct sales function

external power supplies

electric motors

power transformers

welding equipment

8 of these measures revise existing requirements, whereas refrigerators with a direct sales function and welding equipment are regulated for the first time.





New provisions in the revised regulations

An important change is the inclusion of elements to further enhance the reparability and recyclability of appliances.

Several of the new measures include requirements, such as:

- making spare parts more easily replaceable,
- •ensuring that key parts and repair and maintenance information are available for end users and professional repairers as appropriate, for a minimum duration of 7-10 years depending on the product.

The <u>changed ecodesign rules</u> for washing machines, dishwashers, fridges and freezers, and electronic displays took effect on 1 March 2021.





New Regulation proposal

On 30 March 2022, the Commission proposed a new *Ecodesign for Sustainable Products Regulation* for more environmentally sustainable and circular products.

It was published together with the *Ecodesign and energy* labelling working plan 2022-2024.





Aim of market surveillance



- Weather information on the energy efficiency of goods is correctly indicated
 - Energy label
 - Data sheet
- Weather the product complies with the ecodesign requirements:
 - Conformity assessment;
 - Generic and specific ecodesign requirments;
 - Information to consumers.







Product screening (quality and source; legal requirements)

Market surveillance process

Market surveillance program

Product sampling

Inspection and testing

Visual checks

Administrative controls

Screen testing

Testing in labs

Evaluation of results

Enforcement actions

Voluntary actions

Product bans

Correction of information

Sanctions

Report of results

Public

Stakeholders

Ministry of Economy

Reactive market surveillance

Signals from the market; Complaints Information from other countries Customs





Types of controls

Controls of shops, warehouses, manufacture sites

E-commerce controls of e-commerce sites which direct sales to Latvian consumers

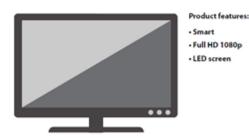
Import controls in cooperation with Customs authority





Online sale Displaying options on webpage

Brand name ABC 12345 40" Smart LED TV





Option 1 – Nested display

Energy label icon

The link to the product information sheet

Brand name ABC 12345 40" Smart LED TV





· LED screen



Option 2 – Displaying the full energy label and product information sheet

Energy label and information sheet are clearly displayed close to the price





Inspection criteria

- 1 Available energy label and product information sheet?
- 2 Close to the price in all pages?
- 3 Displayed correctly?

Full energy label and information sheet

Close to the price

Clearly visible and readable

The form and content is correct

Nested display

Close to the price, correct font size and colour

Opens up to a full size on a click

Correct name 'product information sheet'













Six product groups

Air conditioners





Household tumble dryers

Water heaters



Ventilation units

Lighting products





Local space heaters

















Household tumble dryers



Water heaters



Ventilation units

- Online sale inspections
- Technical documentation evaluation (up to 10 models per group)
- 3 models of water heaters are sent for testing
- 2 air conditioners will be purchased and sent for testing during September 2021
- 3 models of ventilation units will be purchased and sent for testing till the end of 2021
- Screening for new energy labelling in e-commerce and technical documentation evaluation





Information activities

Web site – important platform for information in CRPC

www.ptac.gov.lv

Information on applicable requirements for economic operators (table of applicable requirements);

Guidelines on application of energy labelling requirements (retailers);

Gudelines on application of energy labelling requirements in on-line sales (e-commerce);

Information to consumers on ecodesign, energy labelling.

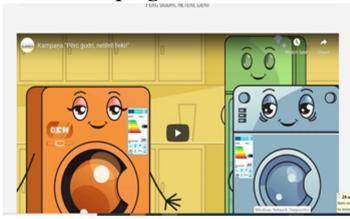
https://percgudri.ptac.gov.lv/

Website on energy label:

www.label2020.eu



Consumer information – campaign in 2020



Equipment comparison tool







Thank you for attention!

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