

The European Union – Turkmenistan Sustainable Energy Days

International Conference

Sustainable Energy in Turkmenistan: prospects and challenges

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Overall EU policy and legal framework for ecodesign and energy labelling of electric appliances

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Energy labelling and ecodesign

Energy labelling framework

Regulation (EU) 2017/1369

15 product groups

Ecodesign requirements

Directive 2009/125/EC

31 product groups



Ecodesign and energy labelling requirements

- 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.

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



Off mode, standby and networked standby



Central Asia

Energy labelling and ecodesign requirements

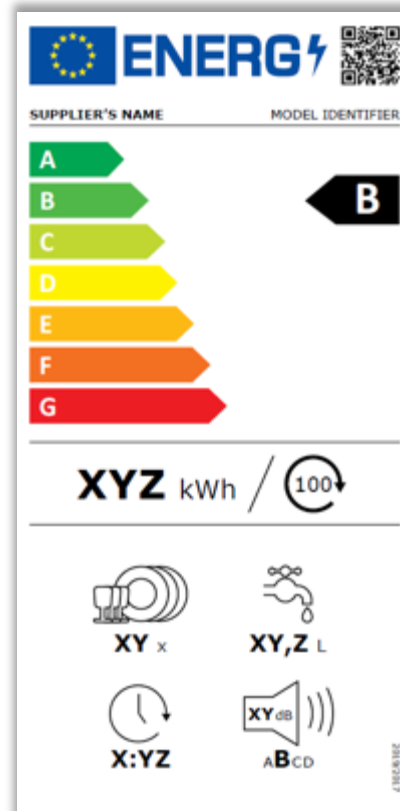
Product groups	Products	E-labelling	Ecodesign
Electronic displays and TV boxes	Electronic displays including televisions	X	X
	Set-top boxes		X
Kitchen appliances	Cooking appliances	X	X
	Dishwashers	X	X
Pumps	Water pumps		X
	Circulators		X
Transformers and converters	Power transformers		X
	External power supplies		X
Computers and servers, imaging equipment, game consoles	Computers and small servers		X
	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

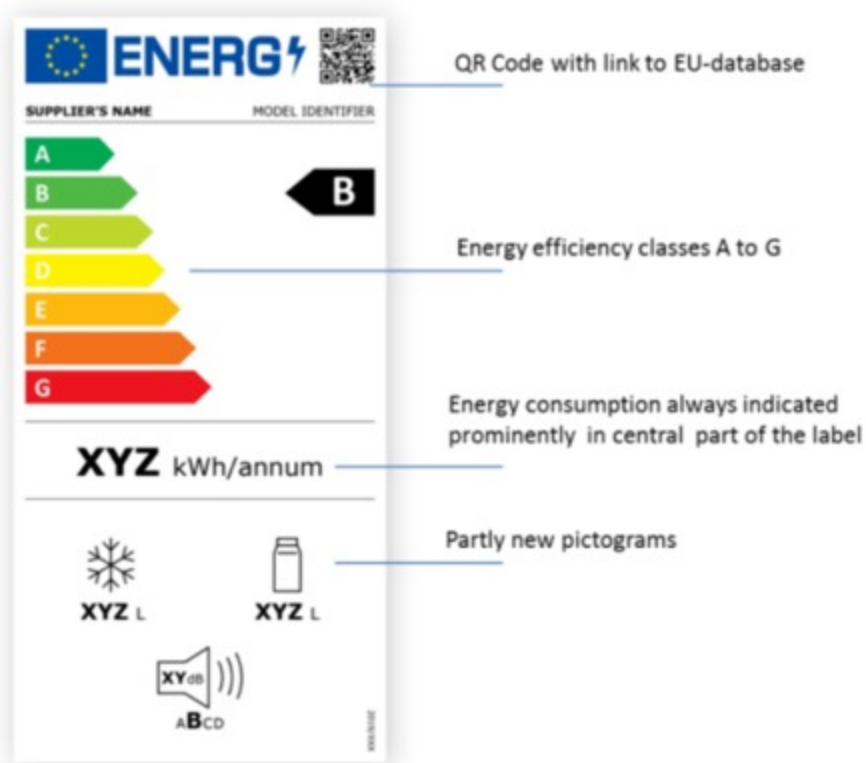
Energy label



Product information sheet

Product Information Sheet Commission Delegated Regulation (EU) 2019 / 2017				
SUPPLIER'S NAME OR TRADEMARK; BRAND NAME				
MODEL IDENTIFIER: ABC12345				
GENERAL PRODUCT PARAMETERS:				
PARAMETER	VALUE	PARAMETER	VALUE	VALUE
RATED CAPACITY (kg)	14	DIMENSIONS IN CM	HEIGHT	85
			WIDTH	59
			DEPTH	60
EER	40	ENERGY EFFICIENCY CLASS	C	
CLEANING PERFORMANCE INDEX	1.5	DRYING PERFORMANCE	1.2	
ENERGY CONSUMPTION IN kWh PER CYCLE, BASED ON THE ECO PROGRAMME USING COLD WATER FILL. ACTUAL ENERGY CONSUMPTION WILL DEPEND ON HOW THE APPLIANCE IS USED.	0.75	WATER CONSUMPTION IN LITRES PER CYCLE, BASED ON THE ECO PROGRAMME. ACTUAL WATER CONSUMPTION WILL DEPEND ON HOW THE APPLIANCE IS USED, AND ON THE HARDNESS OF THE WATER.	13	
PROGRAMME DURATION (mins)	3:42	TYPE	FREE-STANDING	
AIRBORNE ACOUSTICAL NOISE EMISSIONS (dB(A) RE 1 pW)	44	AIRBORNE ACOUSTICAL NOISE EMISSION CLASS	B	
OFF MODE (W)	0	STANDBY MODE (W)	0.5	
DELAY START (W) (IF APPLICABLE)	1	NETWORKED STANDBY (W) (IF APPLICABLE)	2	
MINIMUM DURATION OF THE GUARANTEE OFFERED BY THE SUPPLIER: 24 MONTHS				
ADDITIONAL INFORMATION				
WEBLINK TO THE SUPPLIER'S WEBSITE, WHERE THE INFORMATION IN POINT 6 OF ANNEX II TO COMMISSION REGULATION (EU) 2019 / 2017 IS FOUND: https://www.brandname.eu/				

Rescaling of energy labels



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

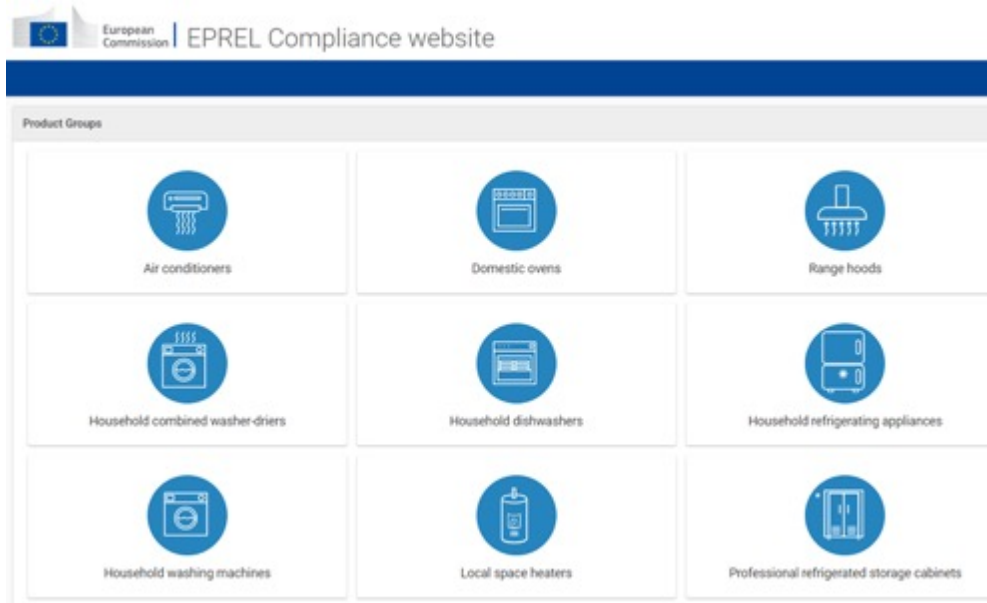
- i) fridges and freezers, including wine storage fridges,
- ii) dishwashers,
- iii) washing machines and washer-dryers, and
- iv) television sets and other external monitors, such as computer displays,

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.



EPREL - European Product Registry for Energy Labeling



Energy

EPREL Infograph version 14/06/2017 © European Commission / Energy / Mobility & Transport / SRD4

Eco-design requirements

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

EU framework directive 2009/125/EC of 21 October 2009 *establishes a framework for the setting of ecodesign requirements for energy-related products*

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, 10 measures were adopted 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 [changed ecodesign rules](#) 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***.



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