



Ministry of Energy and Water Resources
of Republic of Tajikistan



Green Diplomacy Week – a global just energy transition

EU-Central Asia Sustainable Energy Days

International Conference

Energy Efficiency in Tajikistan: prospects and challenges
Dushanbe Serena Hotel, 25-26 October 2023

Overall EU policy and legal framework for eco-design and energy labelling of electric appliances

Linda Rinkule, Deputy Director, Consumer Rights Protection Center of Latvia

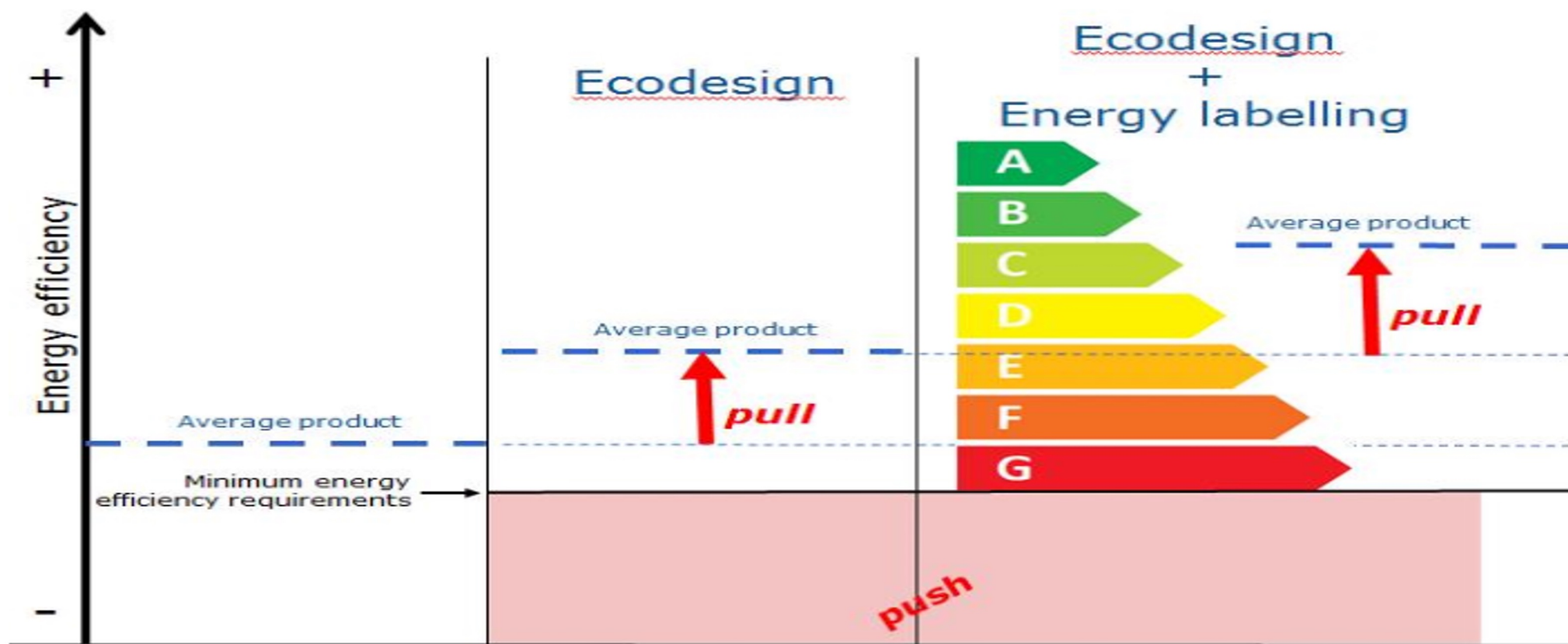


Figure 2: Effect of Ecodesign alone and when combined with Energy Labelling

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

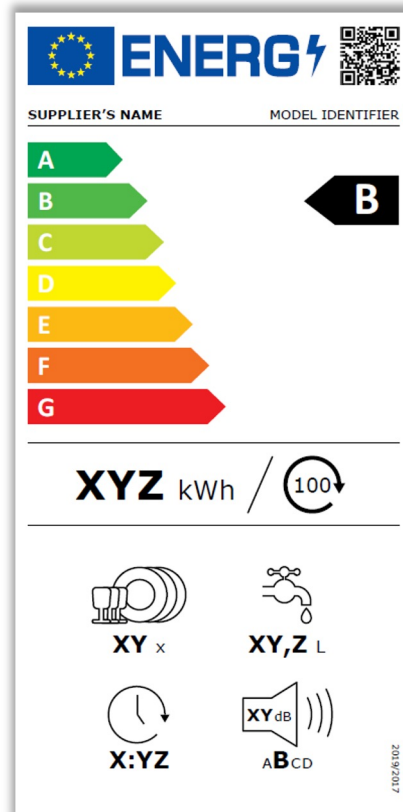
Product groups	Products	E-labelling	Ecodesign
Lighting	Light sources	X	X
Heaters	Local space heaters	X	X
	Space and water heaters	X	X
	Solid fuel boilers	X	X
	Air heating and cooling products		X
Refrigeration	Refrigerators and freezers	X	X
	Professional refrigerators	X	X
	Refrigerators with direct sales 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

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
Types	Types	x	

Energy labelling requirements

Energy label

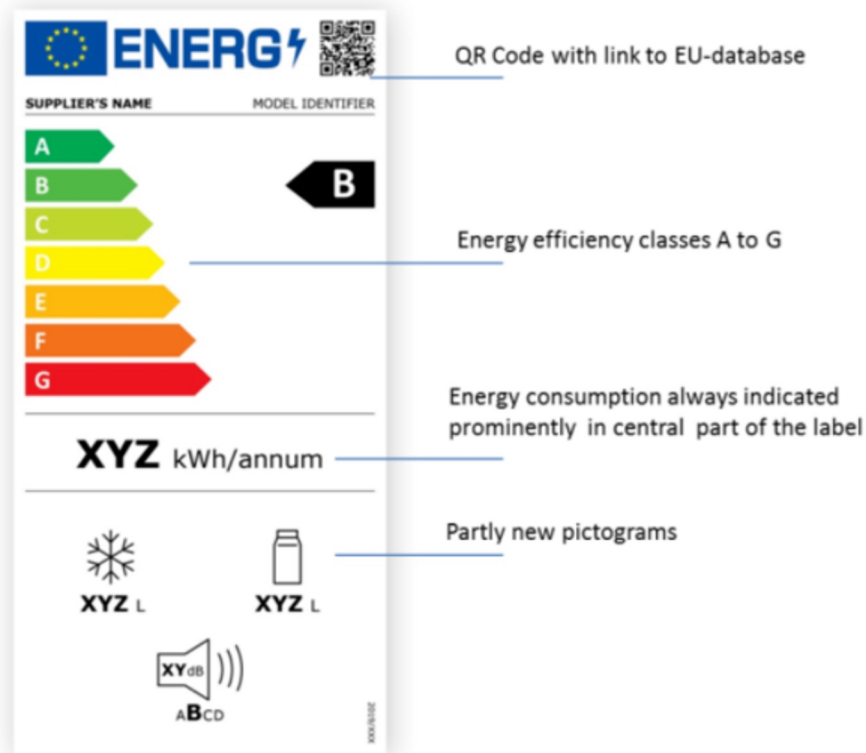


Product information sheet

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 (p5)	14	DIMENSIONS IN CM	HEIGHT	85
			WIDTH	59
			DEPTH	60
EEL	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 (h:min)	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 / 2022 IS FOUND: https://www.brandname.ie/				

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

Rescaling of energy labels



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

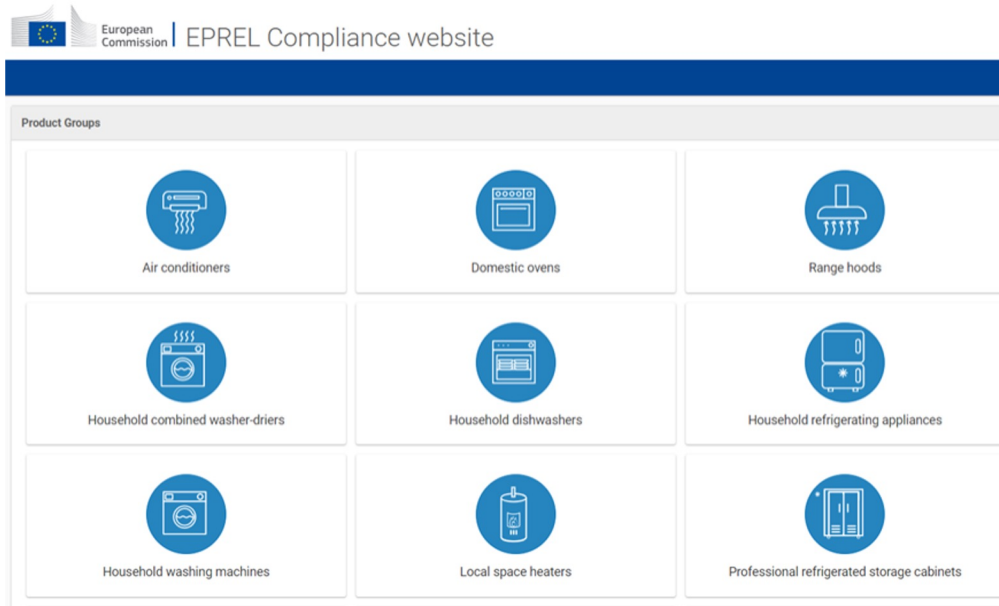
- i) fridges and freezers, including wine storage fridges,
- ii) dishwashers,
- iii) washing machines and washer-dryers, and
- iv) television sets and other external monitors, such as computer displays,

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.

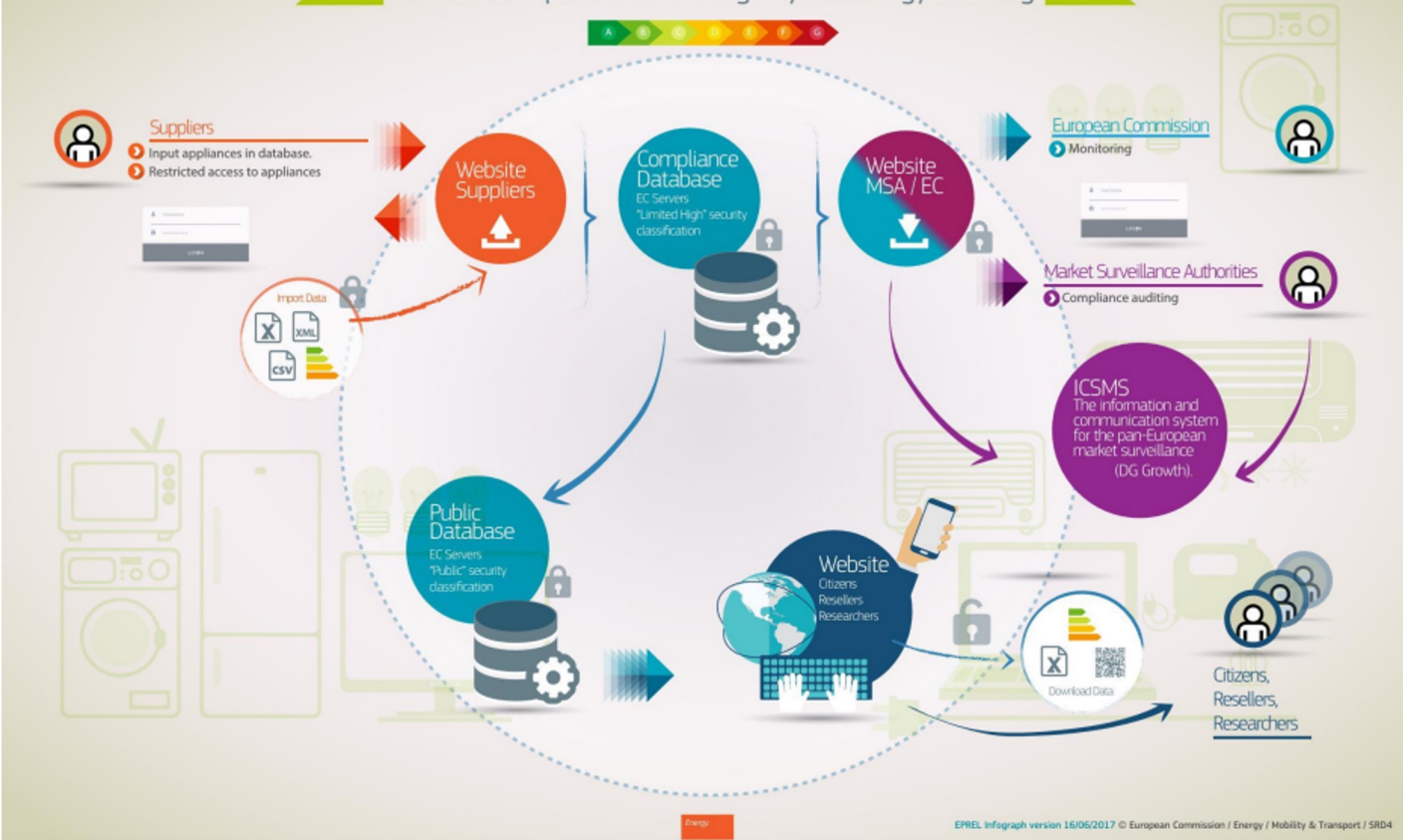
EPREL database



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

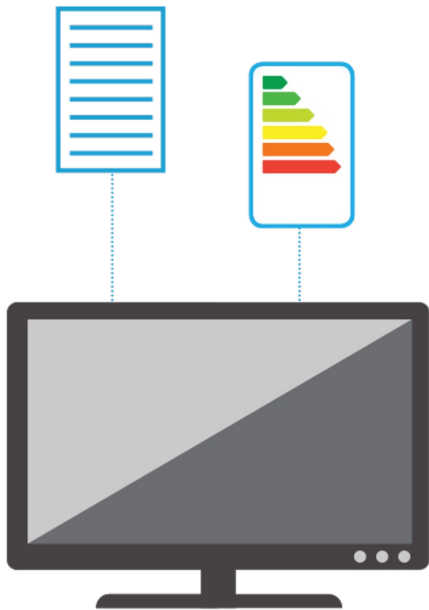


Ecodesign requirements

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;

Aim of market surveillance



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

Market surveillance process



Types of controls

Physical Physical controls in shops, warehouses, manufacture sites

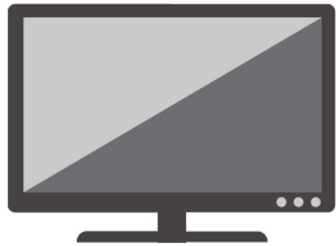
E-commerce E-commerce controls of local e-shops

Import Import controls in cooperation with customs

Online sale

Displaying options on webpage

Brand name ABC 12345 40" Smart LED TV



Product features:

- Smart
- Full HD 1080p
- LED screen



Option 1 – Nested display

Energy label icon

The link to the product information sheet

Brand name ABC 12345 40" Smart LED TV



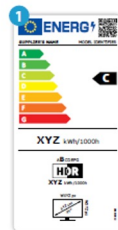
€299

Delivery 1 - 2 working days

Add to basket

Product features:

- Smart
- Full HD 1080p
- LED screen



Product information sheet concerning the Commission Delegated Regulation (EU) 2019/1782

Parameter	Value	Unit	Class
Power consumption (typical)	100	W	A
Power consumption (maximum)	200	W	A
Power consumption (standby)	0.5	W	A
Power consumption (off)	0.1	W	A
Power consumption (average)	10	W	A
Power consumption (maximum average)	20	W	A
Power consumption (maximum average standby)	0.5	W	A
Power consumption (maximum average off)	0.1	W	A
Power consumption (maximum average total)	30	W	A
Power consumption (maximum average total standby)	0.5	W	A
Power consumption (maximum average total off)	0.1	W	A
Power consumption (maximum average total average)	40	W	A
Power consumption (maximum average total average standby)	0.5	W	A
Power consumption (maximum average total average off)	0.1	W	A
Power consumption (maximum average total average total)	50	W	A

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'

29
beneficiaries

20
EU MS
+Turkey

12
WP

Six product groups

**Air
conditioners**



**Water
heaters**



**Lighting
products**



**Household
tumble
dryers**



**Ventilation
units**



**Local space
heaters**





**Air
conditioners**



**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);

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

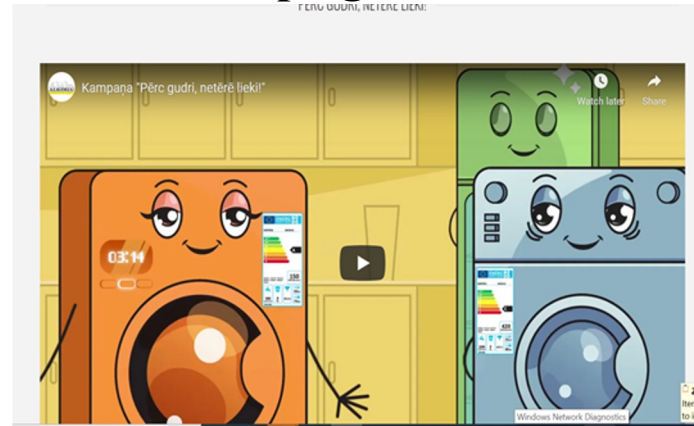
Information to consumers on ecodesign, energy labelling.

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

Website on energy label:

www.label2020.eu

Consumer information – campaign in 2020



Equipment comparison

IZVĒLIES IEKĀRTU

 VELASMAŠĪNA	 LEDUSSKAPIS	 ŪDENS SILDĪTĀJS	 VELAS ŽĀVĒTĀJS	 TRĀUKU MAZGĀJAMĀ MAŠĪNA
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Nosaukums	Elektriskā enerģija patēriņš 	Ūdens patēriņš 	Iekārtas cena	Ieinstalēšanas veids	Veģetācijas ietilpība 
	kWh	l	EUR	frontālais	kg
+ PIEVIENOT PRODUKTU					



- **Linda Rinkule**
- Deputy Director of Consumer Rights Protection Centre of Latvia
- Head of Products and Services Surveillance Department
 - Phone: +371 67388643
 - Mob. phone.: +371 29458487
 - Linda.Rinkule@ptac.gov.lv