

HARP webinar



Heating Appliances Retrofit Planning

29th of March, online



29 March 2022 | 10:00 - 12:00 CET

**EXTENDING ENERGY
LABELLING FOR EXISTING
HEATING APPLIANCES**



CURRENT MARKET OF INSTALLED HEATING APPLIANCES IN THE RESIDENTIAL SECTOR IN GREECE



- Space heating in residential houses is mainly by oil boilers.
- Gas boilers are gaining market share in areas which are connected to main supply network.
- Block of apartments tend to stop using the central heating system. Main alternatives are gas boilers, air-conditioning, electrical radiators (heating only some rooms of the house).
- In some areas biomass is also used in small percentage



CURRENT MARKET OF INSTALLED HEATING APPLIANCES IN THE RESIDENTIAL SECTOR IN GREECE



Domestic hot water is produced by:

- Electric water heaters (65%)
- Solar water heaters (30%)
- Gas combi boilers (5%)





EXISTING POLICIES FOR ENERGY EFFICIENCY IN YOUR COUNTRY

- New buildings are designed in accordance to **Energy Efficiency Regulation**.
- The **Energy Efficiency Certification** is mandatory for:
 - New buildings.
 - Old buildings/apartments/houses when owner needs to rent or sell it.
- For heating boilers is mandatory **annual maintenance** by authorized technicians.



**ΚΑΝΟΝΙΣΜΟΣ
ΕΝΕΡΓΕΙΑΚΗΣ
ΑΠΟΔΟΣΗΣ
ΚΤΗΡΙΩΝ
(Κ.Εν.Α.Κ.)**

ΒΑΘΜΟΛΟΓΗΣΗ ΕΝΕΡΓΕΙΑΚΗΣ ΑΠΟΔΟΣΗΣ	
ΜΙΣΘΕΝΙΚΗ ΕΝΕΡΓΕΙΑΚΗ ΚΑΤΑΒΑΣΙΣ	ΕΝΕΡΓΕΙΑΚΗ ΚΑΤΗΓΟΡΙΑ
EP ≤ 0.10 kWh/m ² ·a	A+
0.10 kWh/m ² ·a < EP ≤ 0.50 kWh/m ² ·a	A
0.50 kWh/m ² ·a < EP ≤ 0.70 kWh/m ² ·a	B+
0.70 kWh/m ² ·a < EP ≤ 0.80 kWh/m ² ·a	B
0.80 kWh/m ² ·a < EP ≤ 1.00 kWh/m ² ·a	B-
1.00 kWh/m ² ·a < EP ≤ 1.40 kWh/m ² ·a	C
1.40 kWh/m ² ·a < EP ≤ 2.00 kWh/m ² ·a	D
2.00 kWh/m ² ·a < EP ≤ 2.50 kWh/m ² ·a	E
2.50 kWh/m ² ·a < EP ≤ 3.00 kWh/m ² ·a	F
3.00 kWh/m ² ·a < EP ≤ 4.00 kWh/m ² ·a	G
4.00 kWh/m ² ·a < EP ≤ 5.00 kWh/m ² ·a	H
EP > 5.00 kWh/m ² ·a	I

ΕΝΕΡΓΕΙΑΚΗ ΚΑΤΗΓΟΡΙΑ	ΜΙΣΘΕΝΙΚΗ ΕΝΕΡΓΕΙΑΚΗ ΚΑΤΑΒΑΣΙΣ (kWh/m ² ·a)
A+	EP ≤ 0.10
A	0.10 < EP ≤ 0.50
B+	0.50 < EP ≤ 0.70
B	0.70 < EP ≤ 0.80
B-	0.80 < EP ≤ 1.00
C	1.00 < EP ≤ 1.40
D	1.40 < EP ≤ 2.00
E	2.00 < EP ≤ 2.50
F	2.50 < EP ≤ 3.00
G	3.00 < EP ≤ 4.00
H	4.00 < EP ≤ 5.00
I	EP > 5.00

ΠΙΣΤΟΠΟΙΗΤΙΚΟ ΕΝΕΡΓΕΙΑΚΗΣ ΑΠΟΔΟΣΗΣ	ΕΝΕΡΓΕΙΑΚΗ ΚΑΤΗΓΟΡΙΑ	
ΕΝΕΡΓΕΙΑΚΗ ΚΑΤΗΓΟΡΙΑ	ΜΙΣΘΕΝΙΚΗ ΕΝΕΡΓΕΙΑΚΗ ΚΑΤΑΒΑΣΙΣ (kWh/m ² ·a)	
Υπολιγνισμένη ετήσια κατανάλωση πρωτογενούς ενέργειας κτηρίου αναφοράς [kWh/m ² ·a]	98.0	
Υπολιγνισμένη ετήσια κατανάλωση πρωτογενούς ενέργειας [kWh/m ² ·a]	222.8	
Υπολιγνισμένες ετήσιες εκπομπές CO ₂ [kgCO ₂ /m ² ·a]	64.1	
Προσμετρούμενη ετήσια κατανάλωση ενέργειας & Εκπομπές CO ₂		
Μητρική ενέργεια [kWh/m ² ·a]	Καύσιμα [kWh/m ² ·a]	Θερμική άντληση [kWh/m ² ·a]
Συνολική ετήσια κατανάλωση πρωτογενούς ενέργειας [kWh/m ² ·a]	Αποσπασμένη άντληση [kWh/m ² ·a]	Αποσπασμένη άντληση [kWh/m ² ·a]
Συνολικές ετήσιες εκπομπές CO ₂ [kg/m ² ·a]	Παράδοση κτηρίου [kWh/m ² ·a]	



EXISTING SUBSIDIES FOR ENERGY EFFICIENCY RELATED TO HEATING SYSTEMS



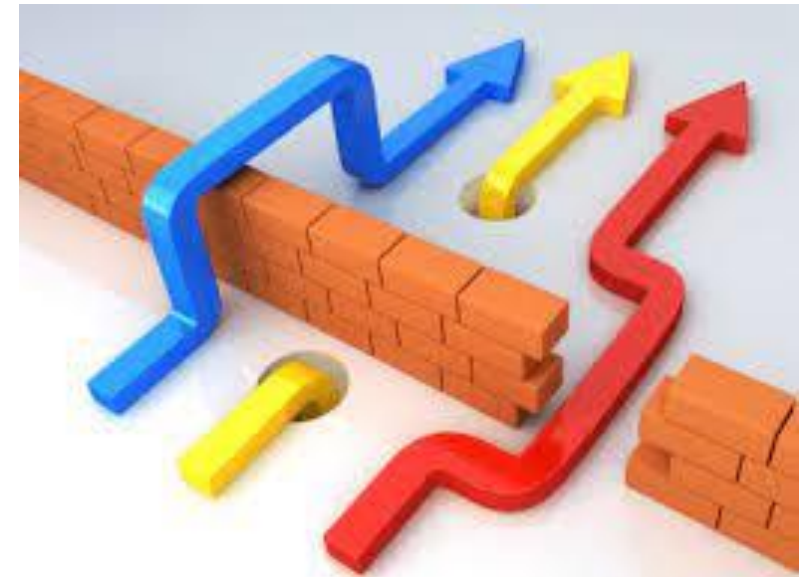
- **National Program for renovation “Εξοικονομώ Αυτονομώ”**
 - Energy improvement of an existing building.
 - Included houses, apartments, block of apartments in total
 - Maximum budget of 28.000 Euro/apartment/house
 - Maximum 85% subsidy (social criteria based on annual income)



EXISTING DRIVERS AND BARRIERS FOR THE APPLICATION OF EXISTING HEATING SYSTEMS LABELLING IN YOUR COUNTRY

- HARP is a useful tool for users to understand the energy improvement they can achieve, in a simple and fast way.
- HARP is useful to end-users to understand the benefits and differences of each technology.
- HARP is a tool that can penetrate to young people, increasing their energy saving awareness.

- HARP should be available in Greek language.
- HARP is a tool mainly for people that are familiar with internet.
- Reactions by specialists as they will lose part of their activity.
- Engagement activities are required.



Thank you for your attention!

Harry Michalopoulos, Managing Director SAMMLER

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heating-retrofit.eu

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