

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**

10:00 – 10:05	WELCOME & INTRODUCTION	ECOS
10:05 – 10:45	HARP: WHY, WHAT AND HOW? <ul style="list-style-type: none"> • State of the installed stock of heating systems in Europe • HARP: from concept to online tool • Focus on the methodology • First results (Italy and Portugal) 	EHI ADENE EURAC ASSOTERMICA & ADENE
10:45 – 11:30	POLICY ADOPTION SCENARIOS FOR THE ENERGY LABEL OF EXISTING HEATING APPLIANCES <ul style="list-style-type: none"> • Policy adoption scenarios for MS, examples from the HARP participating countries • Interested countries (Poland and Greece): challenges and opportunities for replication of HARP • Recommendations for adoption scenarios for Poland and Greece • Discussion 	R2M SPIUG & EBHE R2M
11:30 – 11:45	DEBATE & FEEDBACK FROM THE AUDIENCE	ECOS
11:45 – 12:00	CONCLUSIONS	EHI

AGENDA OF THE WEBINAR

HARP webinar

HARP Project Heating Appliances Retrofit Planning

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**EXTENDING ENERGY
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HEATING APPLIANCES**

HEATING'S ROLE IN THE PATH FOR ENERGY EFFICIENT BUILDINGS

Energy performance of buildings directive

Revised in 2018, the directive will help reach the building and renovation goals set out in the European Green Deal.

Renovation wave

Renovating the EU building stock will improve energy efficiency while driving the clean energy transition.

Long-term renovation strategies

EU countries have defined strategies that foster investments in the renovation of residential and commercial buildings.

Nearly zero-energy buildings

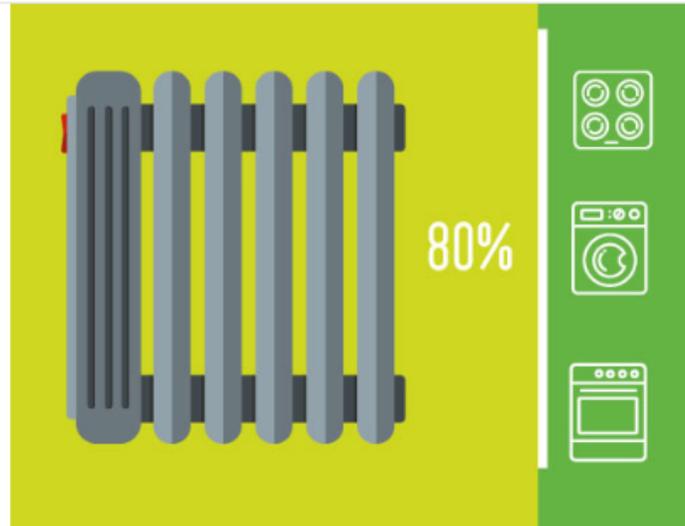
The EU has set a target for all new buildings to be nearly zero-energy by 2020.

“Nearly 34 million Europeans unable to afford to heat their homes properly.”



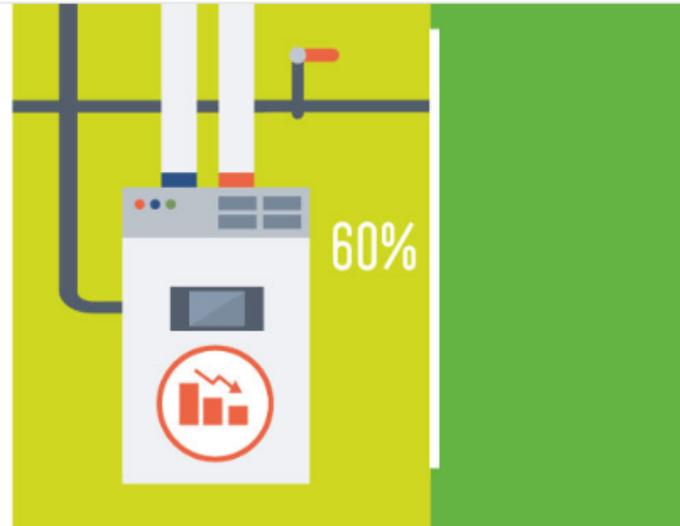
Decarbonisation of
heating and cooling

HEATING'S ROLE IN THE PATH FOR ENERGY EFFICIENT BUILDINGS



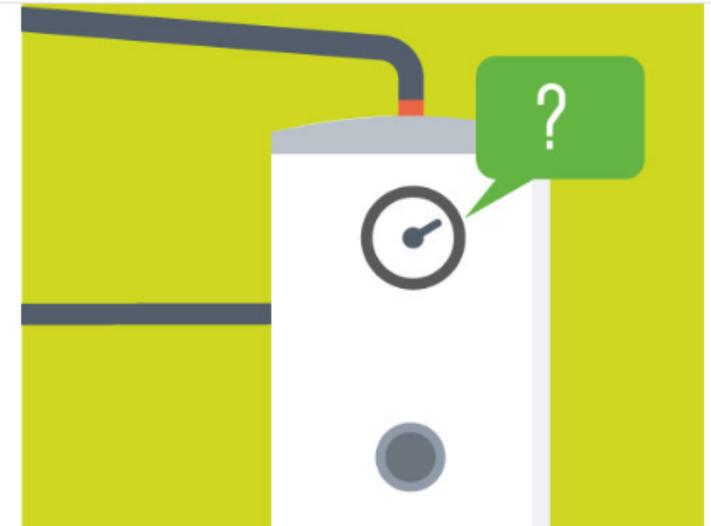
Heating and hot water represents 80% of the energy demand of EU households.

and 84% of it is generated from fossil fuels. A sharp decrease in the energy consumption and use of fossil fuels is needed for the EU to fulfil its climate and decarbonisation goals.



60% of the heating stock consists of inefficient boilers (class C or lower).

The Ecodesign and Energy Labelling regulations for boilers, in place since 2015, remove the worst performing products from the market, while driving consumers towards the most efficient choices. But installed boilers can last for over 15 years, and their replacement rate is very low (4% per year). As a result, a large number of inefficient boilers is still in use today.



Except in Germany, consumers are not informed about the efficiency of their installed heating systems.

This information is crucial to trigger a replacement of the least-efficient heating appliances. HARP will build on the experience of the mandatory labelling of installed boilers in Germany. Recommendations will be issued for the implementation of the labelling methodologies for installed heating systems at the EU-level, and specifically in countries not participating in HARP.

THE CONSUMER'S RELATION WITH THE EXISTING HEATING SYSTEM

It works, 😊, all is well

It does not work, urgent decisions are needed:

- nearly 65% of the replacement purchases happen to replace a broken appliance
- when acquiring new heating appliances more than 70% of the consumers acquires the same type of technology that was already installed
- 43% of the consumers believes the characteristics of their house does not allow them to have a different technology
- 28% of the consumers does not know other heating technologies
- 25% of the consumers did not have the time or availability to look for information on heating systems

Source: Consumer study on purchase decisions regarding heating appliances, EHI/Centerdata, October 2021)



WHY THE ENERGY LABEL?

The energy label is a success story as a tool that supports the consumer acquisition process for more energy efficient products.

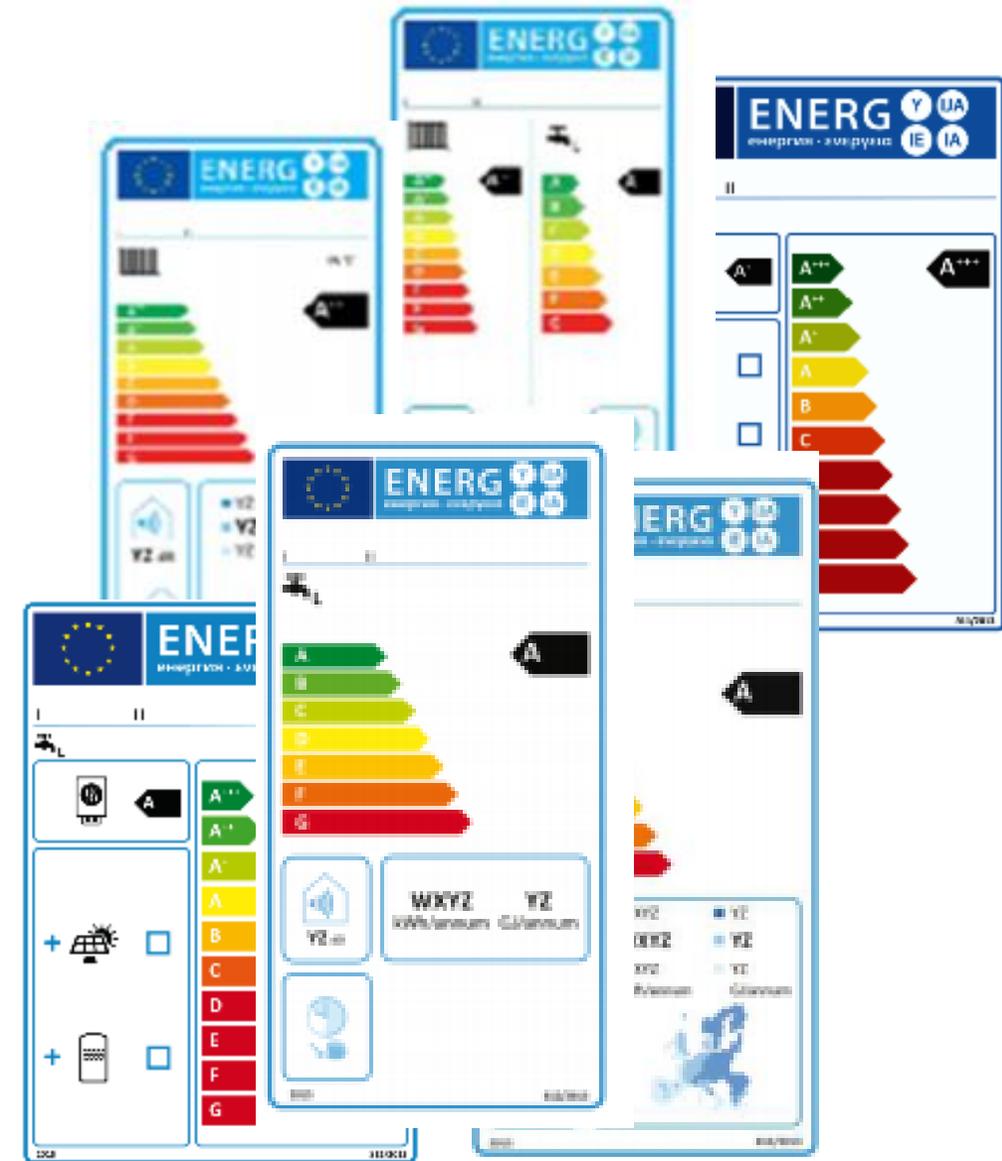
93% of the European consumers recognizes the energy label

77% of the European consumers recognizes the heating energy label

74% of the consumers that purchased a new heating appliance affirmed to have considered the heating energy label to decide in the new appliance

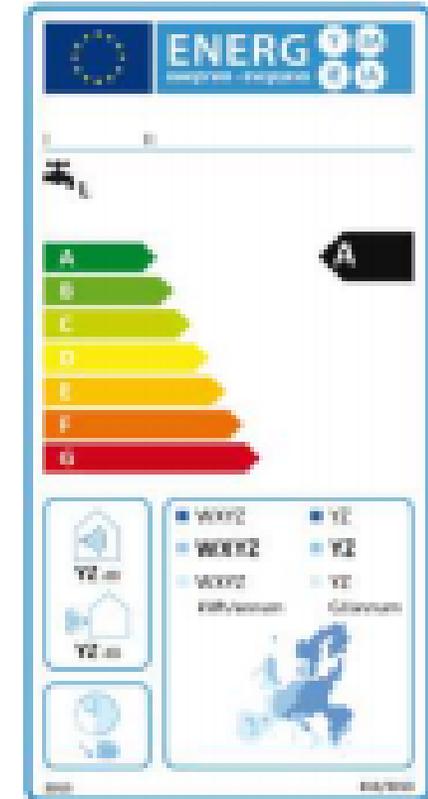
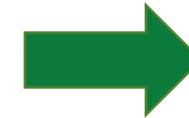
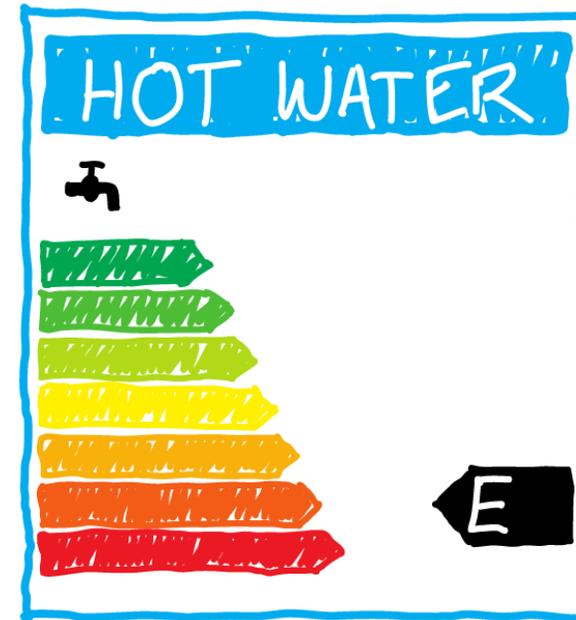
63% of the consumers considers the heating energy label an important input in the selection of the new heating appliance

Source: Consumer study on purchase decisions regarding heating appliances, EHI/Centerdata, October 2021)



HARP'S PROPOSAL

What if the consumer knew the energy efficiency and class of the current heating appliance and could directly relate to the energy scale of the new appliances on the market, understanding the opportunity (and urgency) to replace his old and inefficient heating appliance?



HARP'S APPROACH

HARP's main goal is to motivate individuals to plan the replacement of their often outdated and fossil-fuel operated heating appliances, with more efficient and renewable alternatives.

Awareness: raising consumers' interest in the heating topic
Consumer Theory of Change Model, key issues and communication channels

Quantification: labelling the existing heating system
Methodology to calculate the efficiency and class of space, water and combi existing heaters, harmonized with the EU energy labelling regulations for space and water heaters

Overview of solutions: presenting the most efficient heating technologies on the market
Assessment of heating solutions with the heating industry

Analysis of benefits: providing information on potential energy, money and CO₂ savings
Estimate potential savings, new energy class and added co-benefits upon the replacement

Motivate the replacement: extending the information to professionals and incentives
List of professionals that can support the consumer and available incentives

HARP'S MAIN OUTPUTS

HARPa, an online application supports consumers (and professionals) in the identification of their current heater's energy class and finding an energy efficient replacement solution. Furthermore it straitens the contact with professionals and identifies incentives available at national level.

Consumers engagement materials:

- Heating technologies factsheets and infographics
- Awareness raising videos
- Serious games on energy efficient heating

Professionals toolbox:

- Specialized articles on how to use the HARPa and motivate consumers to change
- Training materials and training sessions
- Brochure and tutorial on how to label existing heating systems



<https://heating-retrofit.eu/>

HARP'S ADDED VALUE WITHIN NATIONAL POLICIES

- **Integrate the labelling methodologies for existing heating appliances in the national EPCs for buildings**
 - harmonize the energy efficiency calculations among Directives and Regulations (buildings vs products);
 - assure a coherent communication with the consumer
 - benefit from the EPREL database that will aggregate the energy label and product fiches of all the products commercialized in the Europe
- **Integrate the energy label for existing heating appliances in the compulsory (and voluntary) maintenance procedures**
- **Consider the energy label for existing heating appliances in new energy efficiency incentives**
 - as an eligibility condition or an additional element that values the replacement of inefficient systems
 - allows prioritizing replacement needs and channel public funds to the most inefficient systems, guaranteeing the highest energy savings and the best investment of public funding
- **The energy label for existing heating appliances can also be integrated in one-stop-shops and in the new schemes to be defined for buildings renovation passports**

HARP'S RESULTS

- Methodologies to calculate the efficiency and energy class of installed heating systems: space, water and combi
- National campaigns about energy efficient heating during the heating season – reaching 1.5 million consumers
- HARPa, online application – motivating 10.000 replacements
- Policy integration scenarios for the EU and the five participating MS (+3 HARP non participating MS)
- Business models for the sustainable management of the labelling scheme for existing appliances
- Influence public authorities, responsible for energy efficiency support schemes, to support heating replacement and endorse the indicative heating energy label

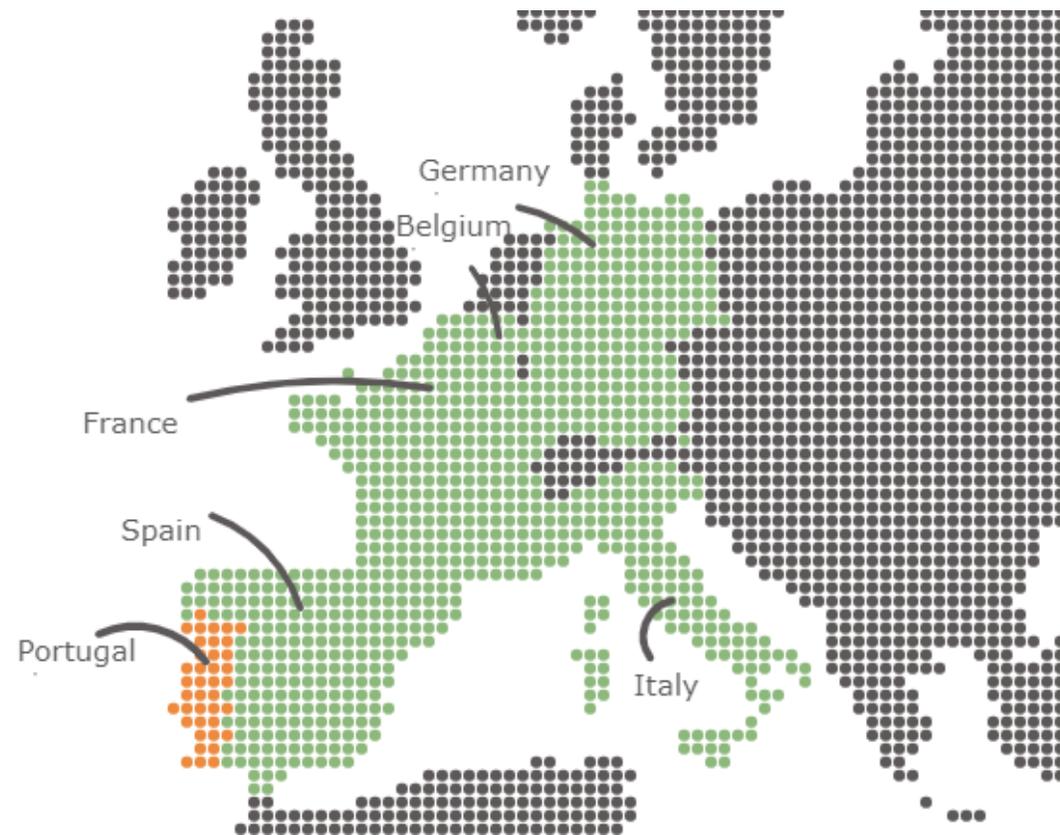
HARP CONSORTIUM



EUROPE France Germany Italy Portugal Spain

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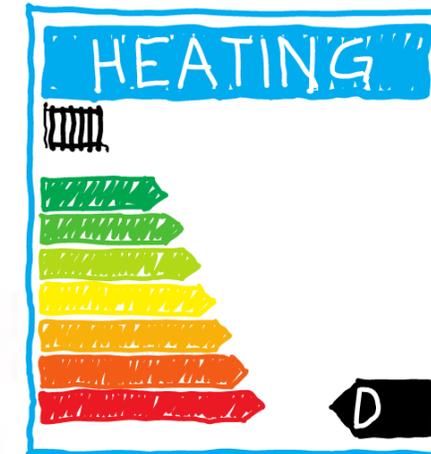


HARP'S INVITATION

Check out your heating's system energy class at:
<https://heating-retrofit.eu/>

Look for the information made available for
consumers and professionals

Interested in joining the HARP's efforts?
Contact us at harp@adene.pt



Thank you for your attention!



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29th of March 2022

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heating-retrofit.eu

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