



National Expert Forum web meeting

HARP Heating Appliances Retrofit Planning

21 ottobre 2020 ore 10:30





Ordine del Giorno

1. Stato di avanzamento progetto HARP
2. Presentazione HARP-a (tool per l'etichettatura energetica)
3. Prima campagna di sensibilizzazione: materiali per consumatori e professionisti
4. Definizione delle modalità di supporto dei membri del NEF

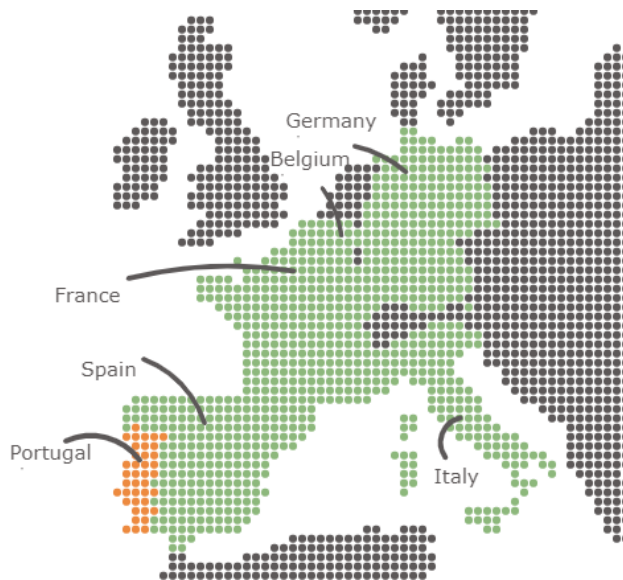
Le premesse e il contesto..



1. Stato di avanzamento progetto HARP

a cura di Daniela Lobosco

HARP's main goal is to motivate individuals to plan the replacement of their often outdated and fossil-fuel operated heating appliances, with more efficient alternatives.



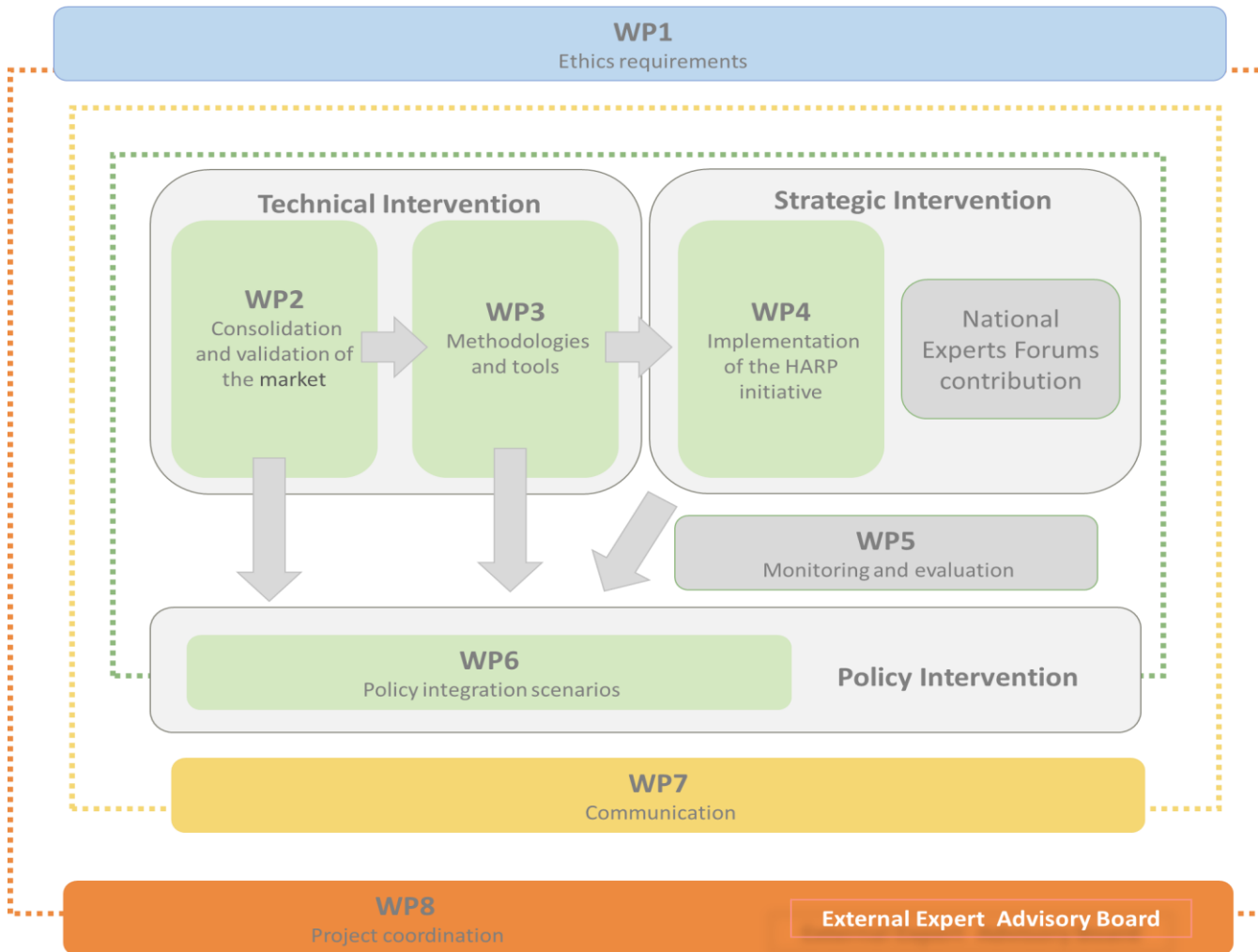
France	Germany	Italy	Portugal	Spain
 <small>ASSOCIATION DES PROFESSIONNELLS POUR LE CHAUFFAGE DURABLE</small>			 <small>Agência para a Energia</small>	
		 <small>Agência Nacional de Energia, Tecnologia e Inovação Tecnológica</small>		
 <small>União de Profissionais de Climatização em Portugal</small>			 <small>Information Management School</small>	
			 <small>Universidade do Minho</small>	

What is the main HARP idea?



The main idea is to define the **energy label for installed heating boilers**

HARP structure – WPs overview



2. Presentazione HARP-a (tool per l'etichettatura energetica)

Efficient Heating System

Online-check

In order to tailor this app to your situation, we need start with a few general questions.

In which country is the building located?

Spain



What describes best your role? I am a ...

End User

Heating Professional

Let's start!

Existing Heating System

Calculate Energy Label

System type

Boiler

Energy source used by your installed heating appliance

Gas

Boiler age (installation year)

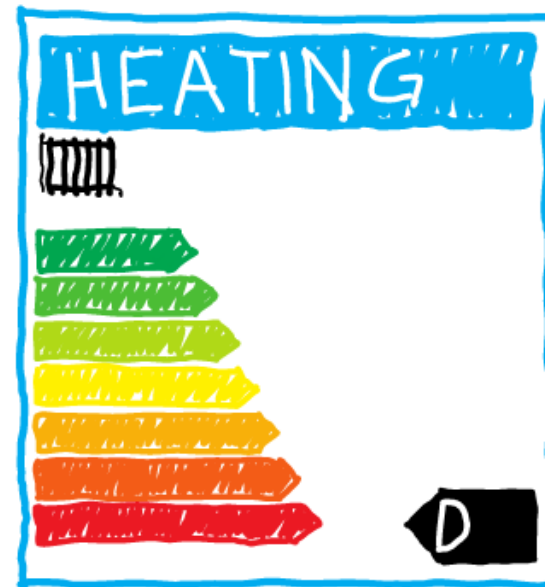
1987 < y ≤ 1994

Optional field(s) below: Leave empty if you are not sure. The values missing will be filled with default values

Nominal power (in Kilowatt, kW)

Calculate Label

Your existing boiler has an estimated efficiency of **67%**, reaching an energy label class of **D**.



*Versione semplificata
per il consumatore*

Calculate Energy Label

System type

Boiler

**Energy source** used by your installed heating appliance

Gas

**Boiler age** (installation year)

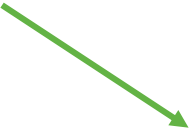
1987<y<=1994



Optional field(s) below: Leave empty if you are not sure. The values missing will be filled with default values

Boiler type

Please chose

**Nominal power** (in Kilowatt, kW) **η_{30}** (efficiency at 30% part load defined at net calorific value, in %) **η_{100}** (efficiency at full load defined at net calorific value, in %) **P_{stby}** (stand-by heat losses, in Watt) **e_{lmin}** (electrical consumption at 30% part load, in Watt) **e_{lmax}** (electrical consumption at full load, in Watt)

*Versione dettagliata
per il professionista*

Intended use

Estimate Your Energy Demand

Type of Buildings

Single House



Building Construction

from 1971 to 1980



Heating area (in m²)

120

Annual use (in days)

365

Seasonal usage

All year



Next questions

Intended use

Some technical requirements

Storage space available?

Is a minimum of 1.5 m³ available (1 m² x 1.5 m height)?

Yes No

Garden/Land available?

Is at least 40 m² available?

Yes No

Roof available?

Is at least 6 m² available?

Yes No

Gas network

Is the house connected to the gas grid?

Yes No

Electric capacity sufficient?

Does the house have an electric capacity of at least 3 kWh?

Yes No

Show Results

Possible Heating Solutions

Please find below the results for different technologies and your situation:

Order by Energy Cost

Order by Energy Savings

Ordered by CO₂ Savings

Technology	Energy	Energy cost [€/a]	Energy savings [kWh/a]	CO ₂ savings [t/a]
Biomass boiler	Biomass	2812	8,71	5,49
Heat pump, ground/water	Electricity	694	23,78	4,39
Heat pump + Solar thermal	Electricity, Solar	1287	20,64	3,45
Heat pump, ground/water	Electricity	1388	20,1	3,29
Boiler + Solar thermal	Gas, Solar	1017	10,07	2,01
Condensing boiler	Gas	1097	8,71	1,74
Gas heat pump	Gas	1194	7,04	1,41

Primi feedback

3. Prima campagna di sensibilizzazione: materiali per consumatori e professionisti

a cura di Daniela Lobosco e Enrico Genova

WP4 - Engagement initiatives, implementation (Leader: Assotermica)

Deployment of an integrated **engagement campaign** focused on the consumer and fostering his **behaviour change** when confronted with inefficient heating solutions:

- define the **HARP National Action Plans** to deploy in Portugal, Germany, Spain, Italy and France:
 - Build the National Experts Forum (minimum 10 stakeholders)
 - Define activities for the two heating season campaigns
- **develop engagement materials for consumers**, toolbox including: articles, brochure, videos, factsheets, infographics, online serious games, etc.
- **develop commitment materials for professionals**, toolbox including: articles, brochure, trainings, tutorials
- **Implementation of the HARP Action Plan** at national and EU level

SUMMARY OF KPIS

CONSUMERS

	reached consumers	ask for a label	replace the heating system
France	376275	11100	2664
Germany	464122	13692	3286
Italy	339668	10020	2405
Portugal	58863	1736	417
Spain	261072	7702	1848
TOTAL	1.500.000,00	44.250,00	10.620,00

Reached consumers: via all the activities being developed at the national level: including visits to the national websites, reached by the partner's social media posts, reached by media channels as articles in magazines and journals

Ask for a label: number of labels generated in the national language

Replace the heating system: number of consumers that use the online application and complete all the steps, visualizing the final report on available solutions and TCO analysis.

SUMMARY OF KPIS

PROFESSIONALS

	Professionals trained
France	250
Germany	250
Italy	250
Portugal	100
Spain	150
TOTAL	1.000

POLICY LEVEL

10 public authorities include heating systems in their energy efficiency measures programmes (regulations, incentive, financing schemes, etc.) – **2 per country**

Three endorsements of the HARP resources in National policy instruments – aim at 1 per country

NATIONAL EXPERTS FORUM – NEXT STEPS

- supporting network, involving the most relevant stakeholders, also public authorities and consumer-oriented agencies
- average of 10 entities
- Three meetings are to be scheduled:
 - 1st meeting (up to M15) - HARP strategy at the national level, activities and cooperation definition & **HARP tools presentation and validation**;
 - 2nd meeting (up to M25) - 1st results, feedback, best practices and **update of the national action plan**;
 - 3rd meeting (up to M32) – **policy integration scenarios for the national follow up and business models.**



Feedback dei presenti

Grazie per l'attenzione

Assotermica Segreteria Tecnica

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Assotermica
tecnologie per il comfort

**HARP**
Heating Appliances Retrofit Planning