

A new labelling for installed heating appliances in Europe?

Policy integration scenarios for the new label

Marco Calderoni and Fabio Aprá







Labelling of Existing Systems

Before the HARP project started, labelling mechanisms were already in place in Germany, Italy, France and Spain (more details in the next slides).

HARP therefore introduced a "parallel" mechanism.

Since the coexistence of 2 mechanisms creates confusion, each country decided which one to use in the future: the preferred solution is to adapt HARP to local conditions.



Mandatory – Promoted by the Ministry of Economy and Energy through the national energy agency - DENA



Voluntary – Methodology by E&A and COENOVE. Thought for professionals only. No DHW (only liquid fuel and gas boilers)



Voluntary – Methodology by Assotermica. Thought for professionals only. To apply during maintenance. No DHW.



Voluntary – Simplified methodology by FEGECA. To apply during maintenance by professionals.

Effizienzklassen-Rechner





Adoption of the HARP methodology: the consortium countries' experience

Labelling initiative

Main Paciniants

incentives

Public (Energy Agencies)

End users

Private (Industrial Associations)

ivialli kecipielits	
Authorities providing	Professionals/installers





Voluntary – Methodology by E&A and COENOVE. Thought for professionals only. No DHW (just liquid fuel + gas)

Existing methodologies and tools

Mon Etiquette Chaudière is based on the approved **European Algorithm** method (UE N°811/2013)

The **industrial associations** promoted and financed the methodology and tool.

HARP in the future

HARP will replace the existing tool, since it's more efficient.
HARP needs the support of FR industry partners to follow-up

HARPa will be used instead of Mon Étiquette Chaudière. The new application will be called Mon Étiquette Chaudière Chauffage

Contacts ongoing with the French Directorate General of Energy and Climate to possibly endorse HARP.





There is **no existing tool** in Portugal, neither voluntary – **ADENE aims at using HARP at national level.**

Existing methodologies and tools

ADENE's idea is to create a framework to offer to the government to implement HARP methodology

Need for increase the awareness of users through engagement activities explaining retrofitting cobenefits.

The HARP methodology could be used to evaluate the requests for incentives and rank the best interventions requests (in €/kWh saved)

HARP in the future

There is a explicit request from the European Commission in developing one-stop-shop activities for the EPBD.

National Long Term
Renovation Strategy
references HARP as a tool to
incentive replacement of
existing heating systems.





Voluntary – Methodology by Assotermica. Thought for professionals only. To apply during maintenance. No DHW. **Existing methodologies and tools**

Developed together with the industry for the industry.

The **industrial associations** promoted and financed the methodology and tool.

HARP methodology is more easily accepted by public

entities (validated by EURAC, endorsed by ENEA)

HARP in the future

Etichetta Energetica will be replaced by HARP.

Ideas: Potential link to **D.P.R. 74/2013** that has completed the implementation of the EPBD.

Inclusion of HARP training in the existing professional courses (e.g. crediti formativi).





Mandatory - Class calculator by BWMI. Thought for professionals only. No DHW.

Existing methodologies and tools

Methodology based on a **national database** for each type of heating appliance, which is created with basic parameters.

Labelling process works well, but this does not translate in a reason to change the heating system for the user.

HARP in the future

Germany will continue with the current methology.

HARP's methodology is more complete than the current German one (e.g. it covers also DHW).

Idea: HARP methodology can be included in the **individual**renovation passport (direct report to user on how to improve their house energy efficiency).





Voluntary – Simplified methodology by FEGECA. To apply during maintenance by professionals.

Existing methodologies and tools

The methodology takes into account just the **heating system** age and type of technology.

Low utilisation of the tool up to know.

IDEA (Spanish energy agency) focuses on RES only, therefore cannot endorse HARP.

Lack of Air-air heat pumps is also a weakness.

HARP in the future

AGENEX (regional energy agency of Extremadura) endorsed HARP and is using it.

FENIE (Spanish energy utility) **is in the decision process** to possibly use HARP with their clients.





POLAND

Promoter: Association of Heating Device Manufacturers and Importers **Boundary conditions:**

- Space heating predominantly with coal or gas (coal banned from 2022)
- Widespread TLR (coal)
- Replacement by condensing (42%) and biomass (29%) boilers
- Heat pumps are growing rapidly (16%)
- Obligation of chimney maintenance every 4 years in apartment buildings

Motivation:

- To avoid the user choosing the new heating system based on the most advantageous incentive.
- Put incentive providers in a position to assess whether the end user's request makes sense.

Immediate actions:

- Translate the app into Polish
- Adapt fuel prices and climate conditions

Medium-term actions:

Make the app suitable for use by incentive providers





Promoter: Greek Solar Thermal Industry Association

Boundary conditions:

- Multi-family buildings are switching to stand-alone systems
- 30% of housing units are already equipped with solar systems

Motivation:

 The HARP app allows end users to simply get information about the benefits of modern technologies

Immediate actions:

- Translate the app into Greek
- Adapt fuel prices and climate conditions



Adoption of the HARP methodology: the consortium countries' experience







Conclusions

APPROACHES TO LABELING

- Labelling of existing heating appliances first was adopted in Germany.
- The German experience shows that making this mandatory for professionals is not necessarily a promising approach.
- Industry-driven approaches seem to have a good potential.
- Another likely effective approach is to link the energy label to incentive mechanisms.

FUTURE SCENARIOS

- Besides countries participating in the HARP project, other countries showed interest for this methodology.
- HARP will provide feedbacks to the European Commission, which may or not consider to introduce labelling of existing heating appliances in legislation.
- Possible ways of introducing labelling at EU and national level are:
 - Incentive mechanisms
 - Future recast of EBPD
 - (Digital) Building logbooks
 - One-stop-shop for building renovation
- Important messages to be communicated to end users are not only related to operational savings (economic and energy), but also to health improvement and increased economic value of the building.

Thank you for your attention!



Marco Calderoni R2M Solution

Follow us!

heating-retrofit.eu

@HarpProject





This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 847049. The sole responsibility for this content lies with the authors. It does not necessarily reflect the opinion of the European Union. Neither the EASME nor the European Commission are responsible for any use that may be made of the information contained therein.

