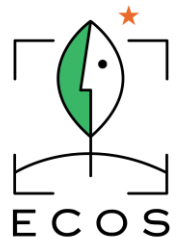




# Decarbonizzare casa

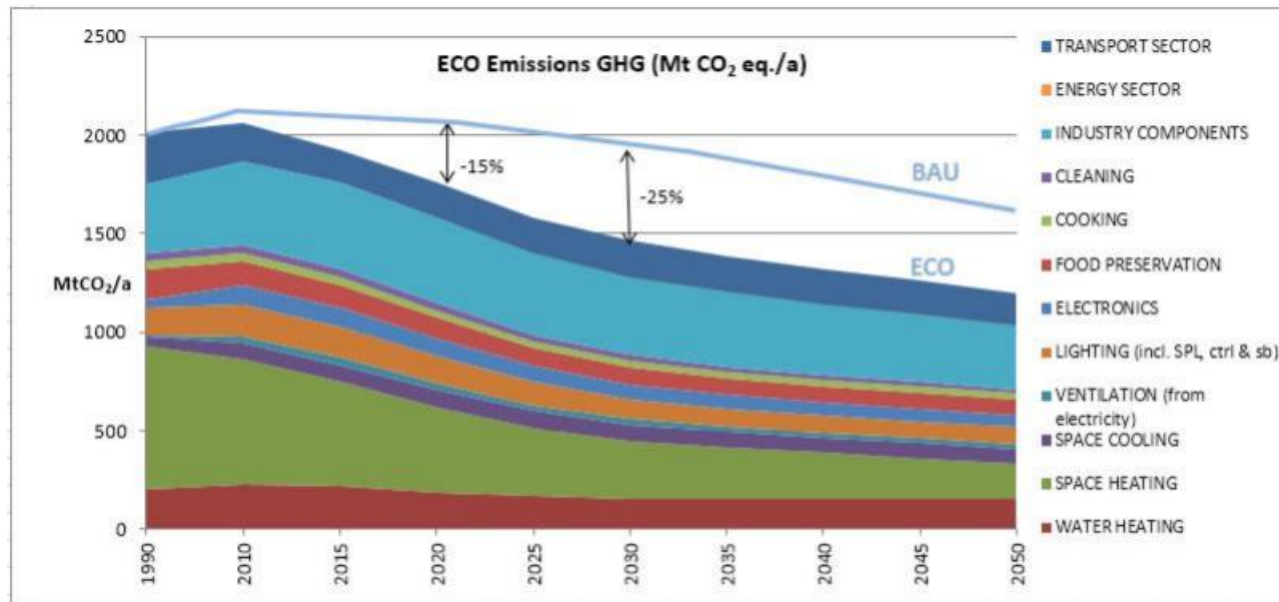
tramite le politiche di prodotto UE

Mélissa Zill (ECOS) / Davide Sabbadin (EEB) 1/12/2020



# Riscaldamento - numeri

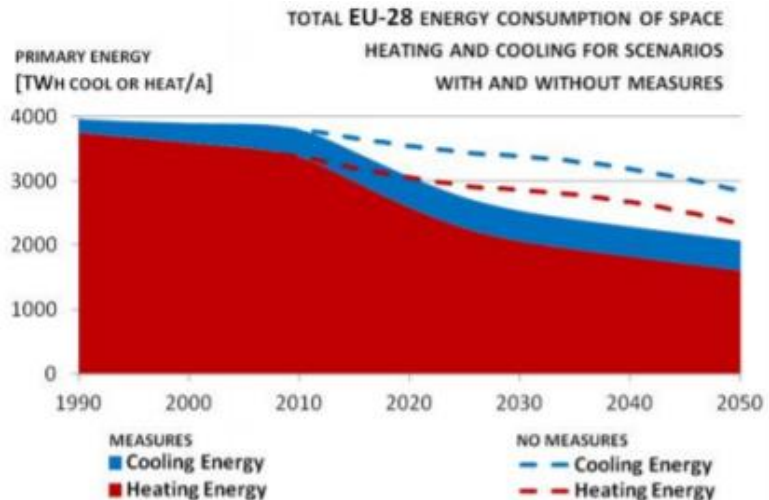
- Riscaldamento e ACS: **28%** dell'energia totale consumata in UE
- **80%** dell'energia finale consumata nelle case degli europei
- **12%** delle emissioni CO2 UE (=totale emissioni auto)



# Heating - in figures

**70%** del totale del carico termico in UE (2000 TWh/y) e' fornito da tecnologie regolamentate dalle direttive Etichetta Energetica e Ecodesign

La direttiva ha consentito di tagliare del **35%** il consumo di energia primaria dei prodotti riscaldamento e raffrescamento



**Si puo' fare molto di piu'!**

- Il riscaldamento centralizzato funziona al **85% con comb. fossili**
- **Le caldaie a gas** rappresentano il **58%** delle tecnologie installate
- **60%** dello stock instalato e' **vecchio e inefficiente** (classe C o inferiore)

# Heating - Regulations

## Local space heaters (ENER Lot 20)

### Ecodesign

Reg 2015/1188: local space heaters (since 1<sup>st</sup> January 2018)  
**Review by 1<sup>st</sup> January 2019**

Reg 2015/1185: solid fuel local space heaters  
3<sup>rd</sup> party certification: by 22<sup>nd</sup> August 2018.  
**Review: by 1<sup>st</sup> January 2024**



### Energy Labelling:

Reg 2015/1186: local space heaters (excluding electric heaters)  
**Review by 1<sup>st</sup> January 2024**  
Revision with a view to rescale A to G label to be adopted **by 2<sup>nd</sup> August 2023**.

Proposal to merge energy labels (March 2019)

## Air conditioning (ENER Lot 10)

### Energy Labelling:

Reg 626/2011: air conditioners  
Covers: electric mains-operated air conditioners with a rated capacity of ≤ 12 kW for cooling, or heating, if the product has no cooling function. Comfort fans ≤ 125W  
**CF in June/July 2019 → adoption expected in 2020.**  
**Energy label to be rescaled during this review.**

### Ecodesign

Reg 2016/2281: air heating products, cooling products, high temperature process chillers and fan coil units  
Covers: warm air heaters, comfort chillers, air-to-air air conditioners > 12kW, water/brine air to air conditioners  
Fan coil units, air-to-air heat pumps > 12kW, water/brine to air heat pumps, high temperature process chillers  
**Review by 1 January 2022**



## Air heating and cooling products (ENER Lot 21)

## Space and water heaters (ENER Lot 1 & 2)

### Ecodesign

Reg 813/2013: space heaters and combination heaters  
**Review ongoing- preparatory study finalised: May 2019**

Reg 814/2013: water heaters and hot water storage tanks  
**Review ongoing- preparatory study finalised: May 2019**

### Energy Labelling:

Reg 811/2013: space heaters, combination heaters, packages of space heater, temperature control and solar device and packages of combination heater, temperature control and solar device.  
**Review ongoing- preparatory study finalised: May 2019**

Reg 812/2013: water heaters, hot water storage tanks and packages of water heater and solar device.  
**Review ongoing- preparatory study finalised: May 2019**



### Rescaling

Derogation in [EL Framework Reg](#) (Recital 17) – distinction between fossil fuel technologies (A) and technologies using renewable energies (A+, A++, A+++). Rescaling later because slower move to renewable technologies.  
**Review by 2 Aug 2025**  
**Adoption of rescaled labels: 2 Aug 2026 'where appropriate' / Final deadline to adopt rescaled labels: 2 August 2030**

## Solid fuel boilers (ENER Lot 15)

### Ecodesign

Reg 2015/1189: solid fuel boilers

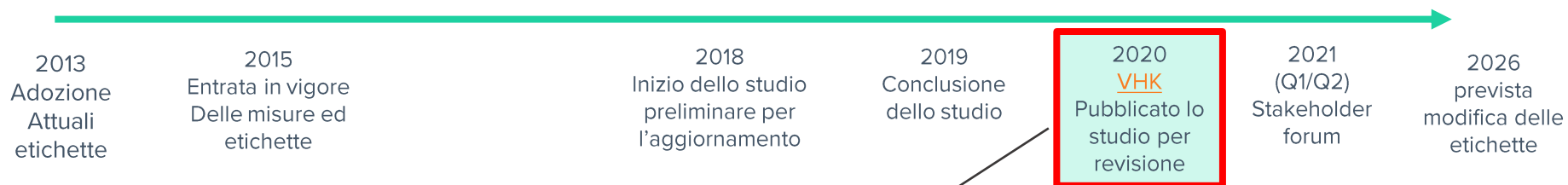
### Energy Labelling

Reg 2015/1187: solid fuel boilers

**Review for both -1<sup>st</sup> January 2022** (no derogation in ELFR)  
Study on introduction of 3<sup>rd</sup> Party certification – by 26 September 2018



# Timeline



## WG 1 – “HYDROGEN” - 13 Feb 2020 – Dec 2020?

- 1.1 Pronti per l'uso degli e-gas (idrogeno?)
- 1.2 Bio-ready (sia biogas che bio-oil)
- 1.3 Effetti della revisione del FEP sulle classi etichetta
- 1.4 I problem delle canne fumarie che impediscono condensazione
- 1.5 Fattori di correzione nella cogenerazione di piccoal scala



## WG 3 – “CALCULO” – 10 Mar 2020 – Dec 2020?

- 3.1 NOx limiti da restringere?
- 3.2 Rivedere I metodi generali di calcolo
- 3.3 Rivedere I calcoli dell'etichetta di pacchetto

## WG 2 – “TESTING” – 2 Apr 2020 – Dec 2020?

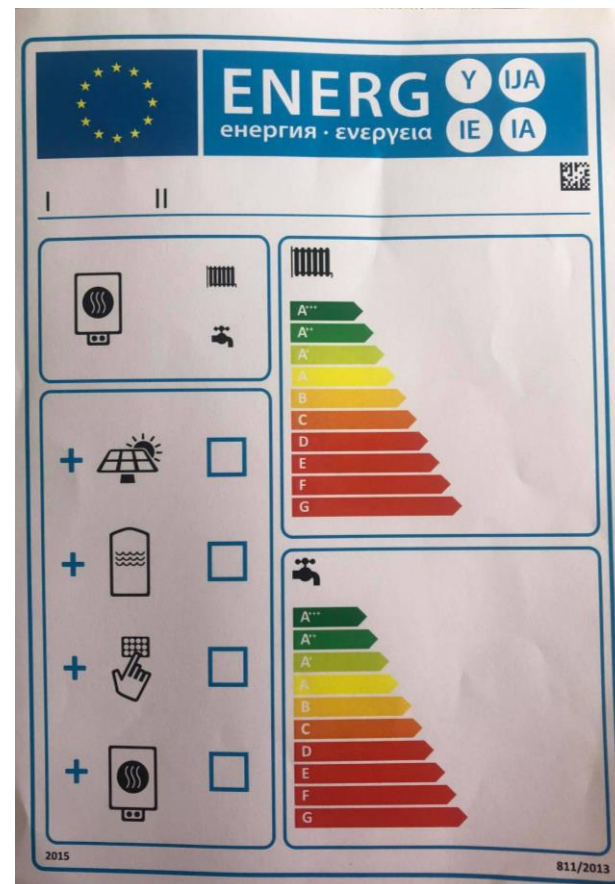
- 2.1 Cosa vuol dire condizioni standard di test per le pompe di calore
- 2.2 Fuel boiler testing: bin-method conditions at 65°C, include O-size
- 2.3 Verifica delle tolleranze di misura
- 2.4 Certificazione obbligatoria per I risultati o autocertificazione?
- 2.5 Estensione a 1W (chi fa I test? Come? Quanto costa?)
- 2.6 Cambiare l'etichetta di pacchetto
- 2.7 Come cambiare etichetta pompe di calore inserendo fasce climatiche come nei condizionatori

## WG 4 – “SCALDACQUA” – 20 Gen 2020 – 25 Giu 2020

- 4.1 Verifica della possibile eliminazione della fiamma pilota
- 4.2 Problemi di allineamento ecodesign/etichetta (4XL etc.)
- 4.3 ruolo ed importanza dell'accumulo sul risultato finale
- 4.4 Inclusione del PFHRD
- 4.5 Semplificazione del calcolo del contributo solare termico
- 4.6 Tutte le tecnologie di scaldacqua in una sola norma tecnica/etichetta?

# Problemi dell'attuale etichetta

- 1. Vantaggio inaccettabile per le tecnologie a combustione fossile**  
(caldaie a condensazione etichettate A o A+)
- 2. Non c'è evidenza del vantaggio delle rinnovabili** (e.g solar thermal)
- 3. Incompatibile con i nuovi obiettivi climatici UE e di riduzione emissioni**



# Key asks

---

**obiettivo:** eliminare combustione fossile e inefficienti boiler e caldaie elettrici entro 2025

**come?**

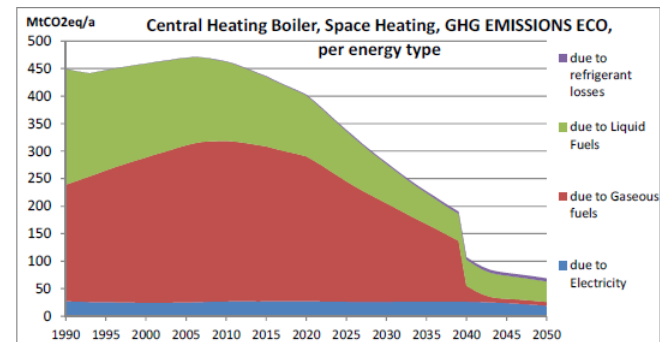
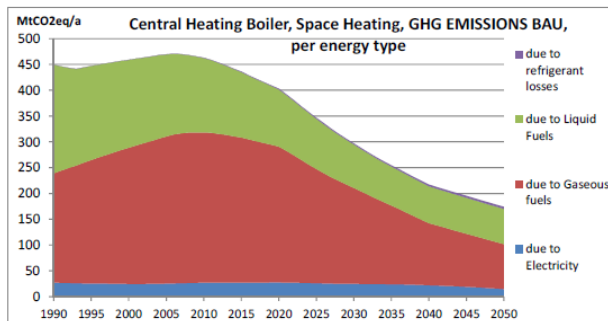
1. Rescalare l'etichetta alle classi A-G
2. Includere tutte le tecnologie con efficienza inferiore a 105% nelle classi F e G
3. pianificare una progressiva eliminazione delle classi F e G (*come fatto con le lampadine*)

# It is not that easy...

- Lo studio preparatorio ad oggi non considera di riscaldare l'etichetta

(17) Energy labelling of space and water heating products was introduced only recently and the rate of technological progress in those product groups is relatively slow. The current labelling scheme makes a clear distinction between conventional fossil fuel technologies that are at best class A, and technologies that use renewable energy, which are often significantly more expensive, for which classes A+, A++ and A+++ are reserved. Substantial energy savings can already be achieved by the most efficient fossil fuel technologies, which would make it appropriate to continue promoting them as class A. As the market for space and water heating products is likely to move slowly towards more renewable technologies, it is appropriate to rescale the energy labels for those products later.

- **Idrogeno, E-gas & biometano** vengono presentati come soluzioni per decarbonizzare il consumo termico domestico. **Poco realistico.**



# But there is hope

→ **Necessario un dibattito di alto livello** che affronti che il problema che il piano ad oggi confligge con gli obiettivi UE

→ **Necessaria maggiore attivismo degli stati membri** interessati alle politiche climatiche, spesso silenti sul piano delle politiche di prodotto. **Italia?**



Date  
16 July 20

1 (6)

Department for Resource Efficient Community  
Resource Efficient Products Unit  
Carlos Lopes, Emma Olsson  
+46 16 544 22 03  
carlos.lopes@energimyndigheten.se

## Preliminary Swedish comments following the second meeting of the technical working group on water heaters and hot water storage tanks

Sweden welcomes the suggestions developed and proposed in the interim report<sup>1</sup> and during the second meeting of the technical working group 4 on water heaters and hot water storage tanks. In summary, the most important comments from Sweden are:

- to welcome and support the proposal for setting technology specific ecodesign requirements for water heaters;
- to not support the suggested lower requirements for large electric water heaters as no evidence is provided for this change;
- to urge the Commission to prepare a proposal for the rescaling of the label to A-G for water heaters and storage tanks. We consider that such rescaling is allowed by the framework regulation, while a revision of the scale without rescaling to A-G is not.

## Comments from The Netherlands

In our opinion – looking at the Green Deal – **it is appropriate to rescale the labels as soon as possible and to start a preparatory study for the revision with a view to rescaling as soon as possible.** This would mean that at this moment nothing on the label is changed. Note that the relevant recital (17) does not mention a date but only says that it is appropriate to rescale the energy labels for these products *later* (based on the assumption that the market for space and water heating products is likely to move slowly towards more renewable technologies). We think that the market for space and

# CALORE PER TUTTI

We need inclusive change

*Ogni Cittadino Europeo deve essere messo in condizione di poter passare dal problema alla soluzione.*

*Abbiamo bisogno di politiche inclusive.*



# La nostra nuova campagna

## Cooling down Europe's heating system





# LA NS NUOVA CAMPAGNA

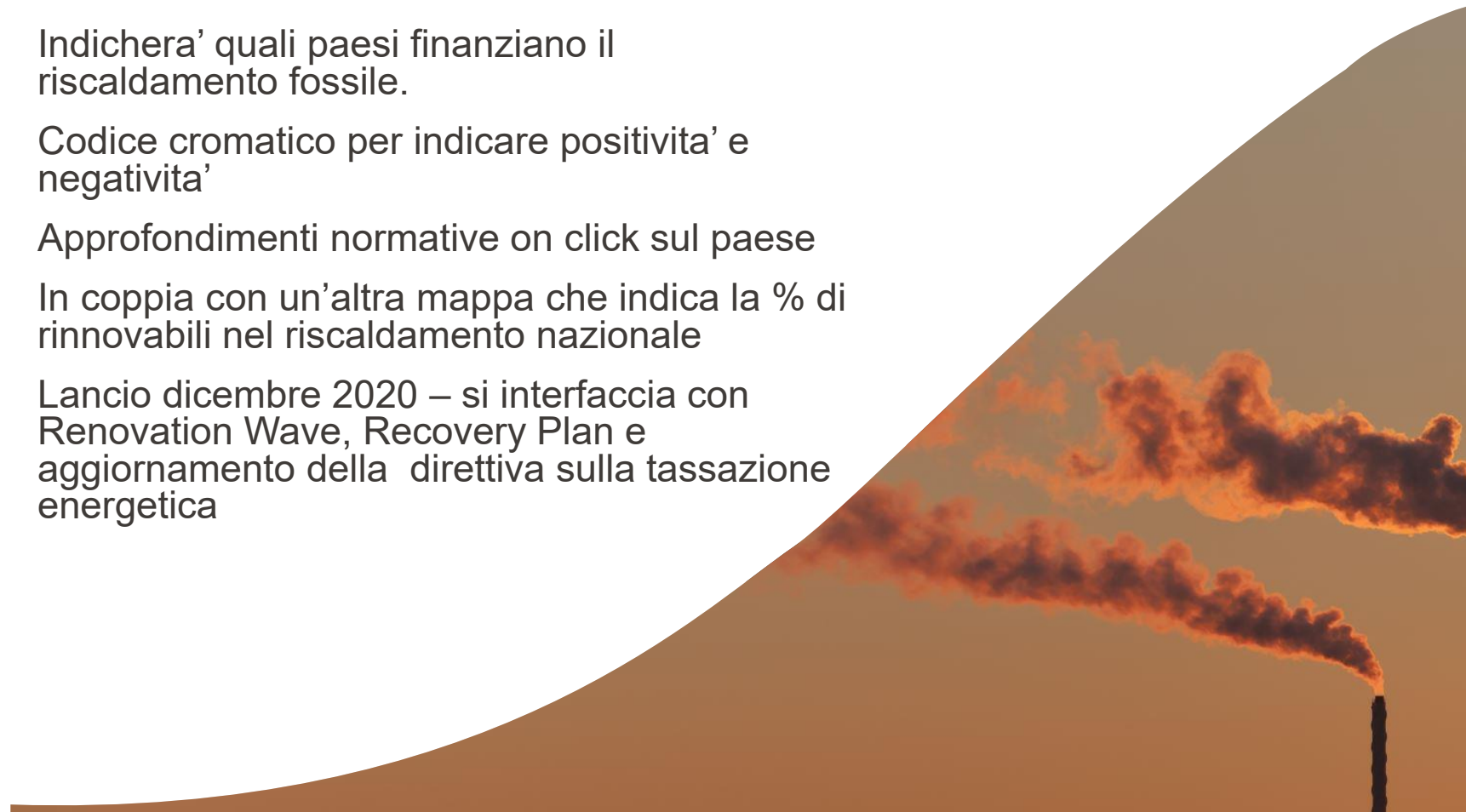
## Coolproducts 2020-2021

- Diretta a produrre contenuti per I media e policy makers
- Produrrà' contenuti visuali online (mappe interattive)
- Coinvolgerà' diversi soggetti in vari stati membri
- Avrà' accenti diversi a seconda del paese (situazioni RE differenziate, agende politiche diverse)
- Promuoverà' tecnologie differenziate a seconda dei paesi
- Punterà' a dare elementi di analisi sostanziale per gli stati membri nel dibattito Ecodesign/Etichetta ed incentive nazionali per il rinnovo tecnologico (p.e. superbonus IT)

# LA MINACCIA FOSSILE

La prima mappa che apparirà su [coolproducts.eu](https://coolproducts.eu)

- Indicherà quali paesi finanziano il riscaldamento fossile.
- Codice cromatico per indicare positività e negatività
- Approfondimenti normative on click sul paese
- In coppia con un'altra mappa che indica la % di rinnovabili nel riscaldamento nazionale
- Lancio dicembre 2020 – si interfaccia con Renovation Wave, Recovery Plan e aggiornamento della direttiva sulla tassazione energetica



# I produttori come vedono il “green”?

---



**BOSCH**



**DAIKIN**



# ANALISI DEI BRAND

Brand audit **report**

- Pubblicazione di una inchiesta sui principali marchi di tecnologia riscaldamento europei
- Basata su intervista e sondaggio
- Non sara' una classifica ma i brand verranno categorizzati
- Si concentrera' sulle strategie di mercato, immagine e narrazione del brand
- Verra' pubblicata non prima di Gen. 2021



# RINNOVABILI &CO MAP

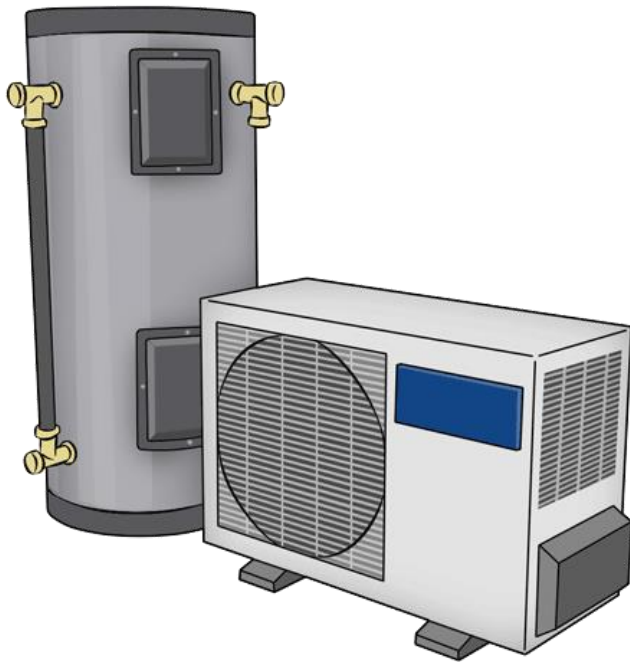
Chi finanzia riscaldamento rinnovabile e come

- **Terza mappa**, uscirà in Gennaio 2021 (tbc)
- Riporta tutti i sussidi alle rinnovabili domestiche negli stati membri
- Avrà un color code che sottolinea positività e negatività
- Verrà rilasciata con un report dettagliato su tutti gli incentivi esistenti
- Ci sarà un indice che analizzerà l'efficacia delle misure
- Si concentrerà soprattutto su Pompe di Calore e Solare termico.



# FOCUS

Due tecnologie che coprono tutta UE:  
Solar Thermal + HP



# ECODESIGN MAP

Posizionamento degli stati membri sul tema

- **Quarta** ed ultima mappa da pubblicare (Q3 2021)
- Indicherà la posizione dei governi rispetto all'eliminazione dei fossili tramite ecodesign/etichetta
- Basata sulle posizioni pubbliche e informazioni recuperate a Bruxelles e nelle capitali
- Pensata per esporre all'opinione pubblica i paesi che blaterano di contrasto ai cambiamenti e poi finanziano le fossili



# COME SARANNO LE MAPPE




## IS YOUR COUNTRY COOLING DOWN EUROPE?

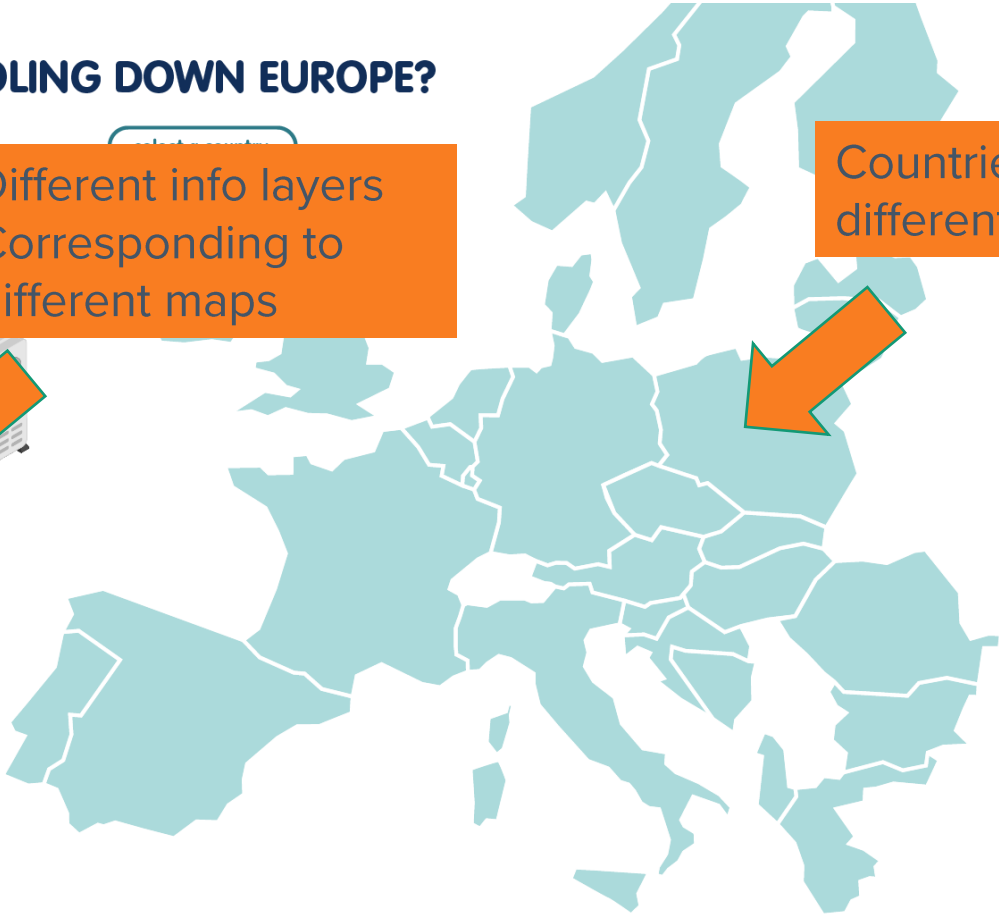
Domestic heating takes up half of Europe's energy consumption and a third of its CO2 Emissions. Lets have a look how your country is doing!

Different info layers  
Corresponding to  
different maps

Countries will have  
different colors

select a category

-  Subsidies in gas
-  Subsidies in renewable energy
-  Share of renewable energy in heating



# HOW IT COULD LOOK LIKE

First **map draft**

## IS YOUR COUNTRY COOLING DOWN EUROPE?

Domestic heating takes up half of Europe's energy consumption and a third of its CO2 Emissions. Lets have a look how your country is doing!



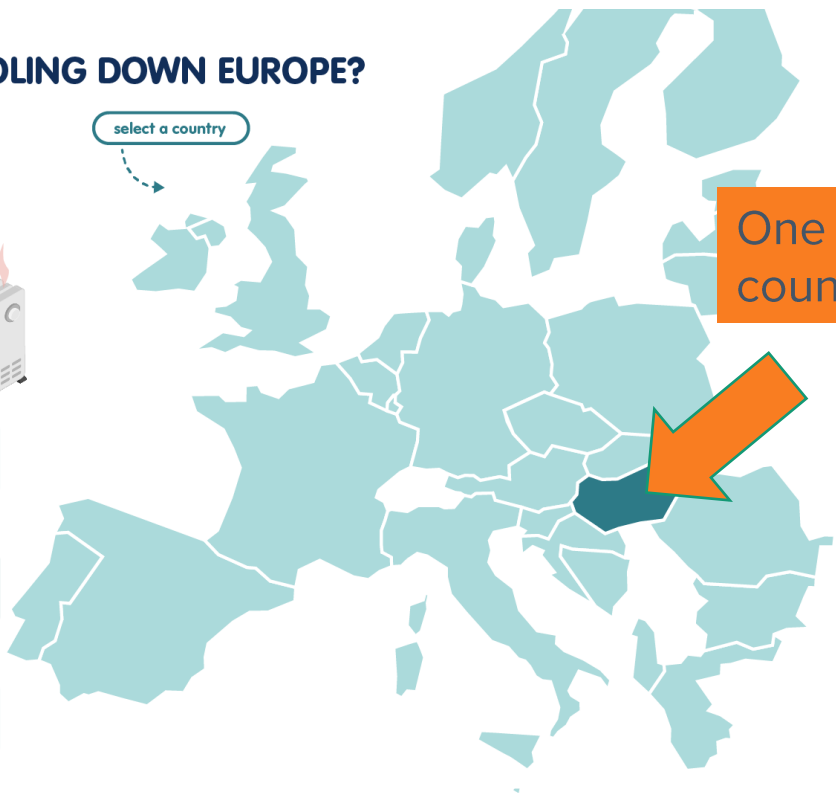
select a category

 Subsidies in gas

 Subsidies in renewable energy

 Share of renewable energy in heating

select a country



One can select a country

# HOW IT COULD LOOK LIKE

First **map draft**

## IS YOUR COUNTRY COOLING DOWN EUROPE?

Domestic heating takes up half of Europe's energy consumption and a third of its CO2 Emissions. Lets have a look how your country is doing!

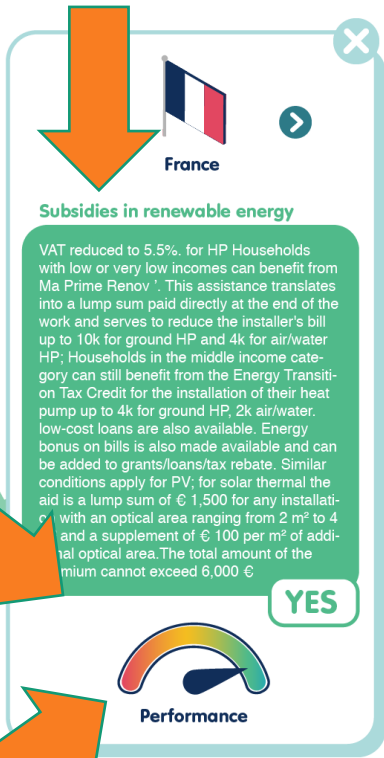


- select a category
- Subsidies in gas
  - Subsidies in renewable energy
  - Share of renewable energy in heating

select a country

A pdf download with details of the country will be available

country info available



France

**Subsidies in renewable energy**

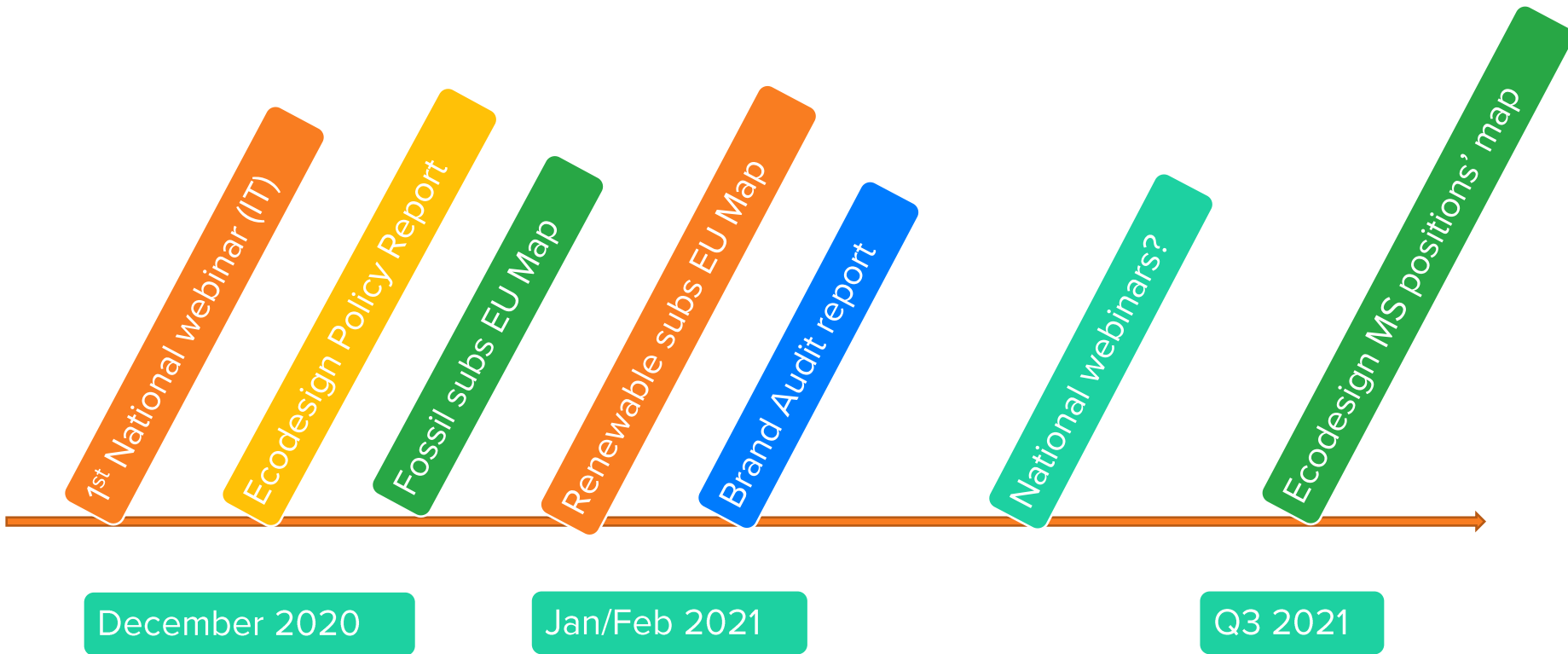
VAT reduced to 5.5%. for HP Households with low or very low incomes can benefit from Ma Prime Renov . This assistance translates into a lump sum paid directly at the end of the work and serves to reduce the installer's bill up to 10k for ground HP and 4k for air/water HP; Households in the middle income category can still benefit from the Energy Transition Tax Credit for the installation of their heat pump up to 4k for ground HP, 2k air/water. low-cost loans are also available. Energy bonus on bills is also made available and can be added to grants/loans/tax rebate. Similar conditions apply for PV; for solar thermal the aid is a lump sum of € 1,500 for any installation with an optical area ranging from 2 m<sup>2</sup> to 4 and a supplement of € 100 per m<sup>2</sup> of additional optical area. The total amount of the mium cannot exceed 6,000 €

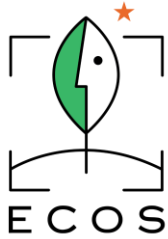
**Performance**

YES

Evaluation for RES incentives

# Timeline





**Davide Sabbadin**  
**Climate & Circular Economy policy officer**  
[Davide.sabbadin@eeb.org](mailto:Davide.sabbadin@eeb.org)  
**+32 0492 279700**

**Mélissa Zill**  
**Programme Manager**

[www.ecostandard.org](http://www.ecostandard.org)

Mundo B, Rue d'Edimbourg 26  
1050 Brussels, Belgium

+32 2 894 46 08  
[info@ecostandard.org](mailto:info@ecostandard.org)



@ECOS\_Standard



ECOS-EU

