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Boosting up the replacement actions of the heating systems through campaigns and further improvement of an EPC scheme



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Making heating and cooling for European consumers efficient, economically resilient, clean and climate-friendly

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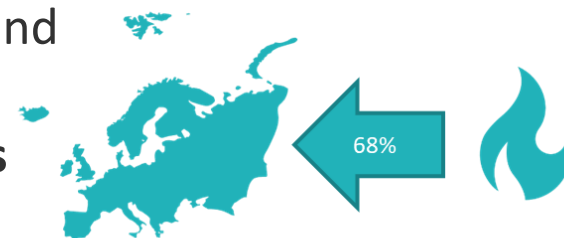
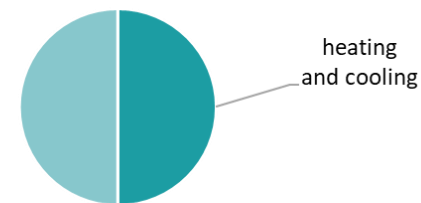
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Situation on the European space heating market

- Heating and cooling sector (HC) involves
 - 50% of the European final energy consumption, is responsible for over 68% of all natural gas imports
 - 80 million out of 120 million installed space heating systems in Europe only achieve C or D label class
- **REPLACE** aims to boost the phase-out of inefficient and old HC systems by targeting consumers, investors/owners as well as intermediaries and **helps them to make informed decisions.**

European final energy consumption



Situation on the European space heating market

- These facts give rise to motivate end consumers
 - to replace their equipment as quickly as possible
 - with more efficient, environmentally friendly, alternative systems



Objectives

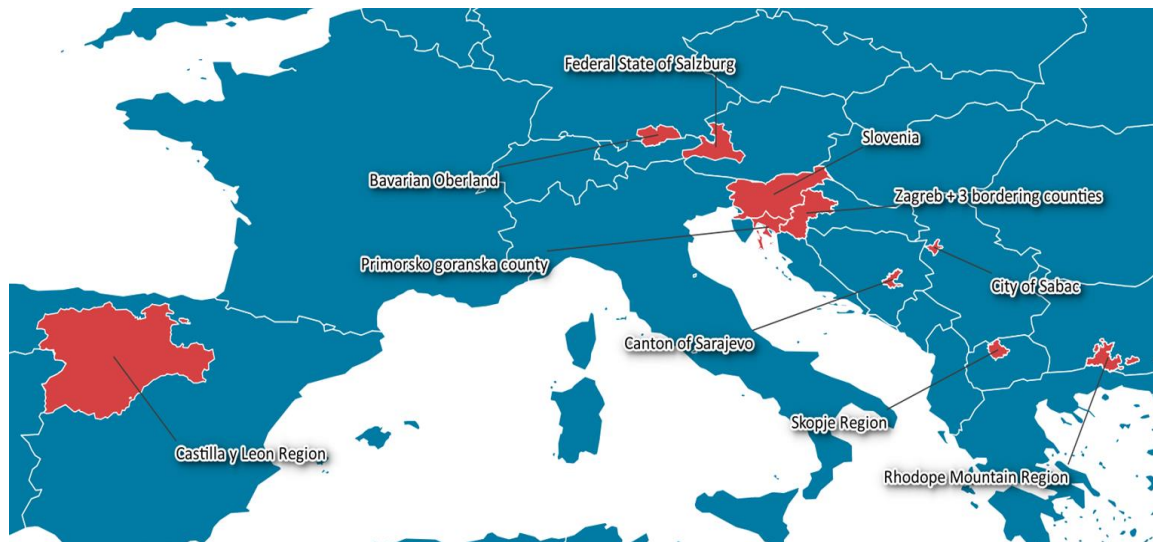
- Motivate and support people in **eight countries** to replace their **old, inefficient heating systems** with **clean alternatives**.
 - **Campaigns** draw attention to the issue and help people to do so
 - **Tools and information materials** help people make informed decisions
 - **Simple renovation measures** that reduce overall energy consumption are also part of the program.
- The project **focus** is on the **residential heating sector**.
- It is coordinated by the Austrian Energy Agency and runs **until March 2023**.



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In REPLACE 9 pilot regions (> 8 mio inhabitants) create campaigns for replacing inefficient heating systems by new, clean climate friendly systems



COUNTRY	TARGET REGION	INHABITANTS
AT	Federal State of Salzburg	550,000
DE	Bavarian Oberland	446,000
ES	Castilla y León Region	2,440,000
	Primorsko goranska County	300,000
HR	City of Zagreb incl. three bordering counties	1,400,000
BA	Canton of Sarajevo	400,000
BG	Rhodope Mountain Region	400,000
RS	City of Šabac	120,000
SI	Slovenia	2,070,000
MK	Skopje Region (Karpoš, Aerodrom, Gjoče Petrov)	200,000
TOTAL		8,326,000



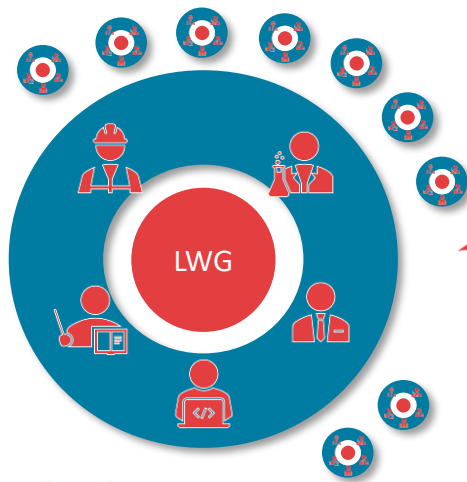
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Developing and testing of campaigns by 9 local working groups

LWG composition

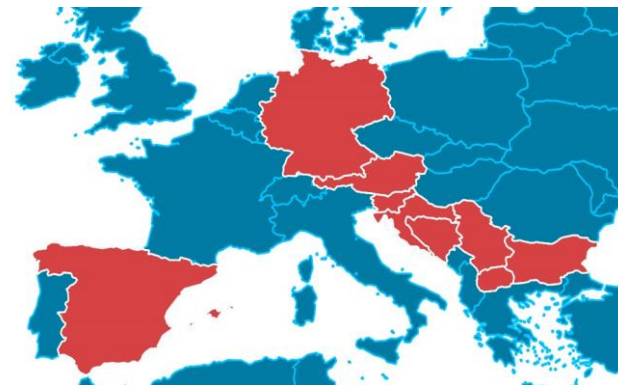
- Regional authorities
- Policy makers
- Municipalities
- Energy advisers
- Installers
- Chimney sweepers
- Equipment manufacture
- Equipment wholesale
- ESCOs
- Local/regional managers
- Ministries in charge
- Funding bodies
- Energy agencies
- Etc.



local
working
groups



campaigns
in
pilot regions



Offer of tailor-made „activity packages“
addressing and reducing main barriers



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Tools and info materials support end consumers

to make info



- Heating m

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- Best Pract

- [replace](#)

OGREVALNA MATRIKA

Tip stanovanjske stavbe / energijski razred

Prilagojeno za sistem za pripravo sanitarne vode

Vetna / sončna energija

Sistem ogrevanja	Pasivna stavba ¹ ≤ 10 kWh/m ² a (A1)		Pasivna stavba ¹ ≤ 15 kWh/m ² a (A2)		Niskoenergijska stavba ¹ ≤ 35 kWh/m ² a (B)		Energijsko učinkovita stavba ¹ ≤ 40 kWh/m ² a (C)		Energijsko neučinkovita stavba ¹ ≤ 105 kWh/m ² a (D)		Energijsko neučinkovita stavba ¹ > 105 kWh/m ² a (E, F, G)		Solarni ogrevalni sistem		Toplotna črpalka - toplotna elektrarna		Prilagojen odjem Smart Grid		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
Sistem pasivne hiše Ugodno prežračevanje z ogrevanjem zraka																			
Kombinacija prisilnega prežračevanja in toplotne črpalke prežračevanje + toplotna črpalka za ogrevanje																			
Toplotna črpalka, ki temelji na izkoriščanju podtalnice² nizkotemperaturni sistem temperatura grednega medija je navzgor omejena s temperaturo 40°																			
Toplotna črpalka, ki temelji na izkoriščanju toplotne zemljine² nizkotemperaturni sistem temperatura grednega medija je navzgor omejena s temperaturo 40°																			
Toplotna črpalka, ki temelji na izkoriščanju toplotne zunanega zraka																			
Biomasn timer na pelete z vmesnim pomnilnikom																			
Biomasn uplinjevalni kotli																			
Daljnisko ogrevanje biomasa/toplovod/plin																			
Toplovodni kamin (drva/peleti) Hišno ogrevanje z vmesnim skladiščem																			
Kamin/kaminska peč/krušna peč brez vodnega sistema za odvajanje toplote																			
Podporni sistem: Direktno električno ogrevanje (npr. IR paneli)																			

■ Zelo priporočljivo
 ■ Priporočeno
 ■ Manj priporočljivo
 ■ Ni priporočljivo
 Tehnično niso primerne

energy advice)

professionals

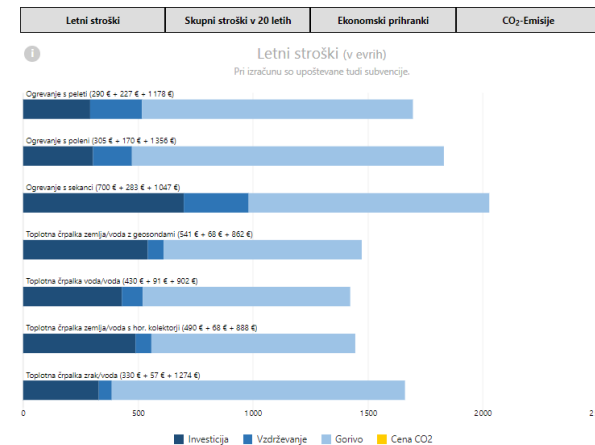


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Boosting up the EPC scheme

- REPLACE offers essential recommendations of the heating system replacement options via online calculator.
- The additional indicators that can be integrated in the EPC schema are:
 - List of cost effective measure
 - Energy use/cost after replacement
 - Energy/cost savings
 - Return of investment



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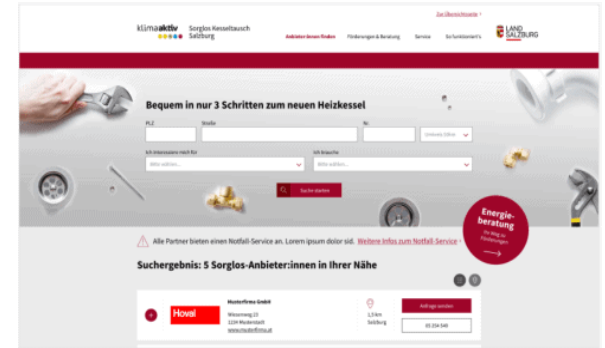
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REPLACE in action!

One-stop shop in Austria



An **internet platform** of the pilot initiative, to select a provider in their vicinity. The provider undertakes to **install** climate-friendly heating systems, **carries out heating checks** to save energy and provides a mobile heating container in the event of a heating system failure, thus creating time for the exchange.



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REPLACE in action!

Increased volume of subsidies in Bulgaria



Project partner BSERC was directly involved in increasing the subsidy for renewable heating systems at the national level to 70 mio Euro.

BSERC is also organizing a joint purchase of pellets in two municipalities in the summer of 2022, which will also have a positive effect on the price.



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REPLACE in action!

A new subsidy scheme in Spain



The project partners made more knowledge about biomass directly available to end customers: 200 houses and 200 boilers are getting an information label.

10 info hubs have been established.

A new subsidy scheme developed by EREN is helping to switch a total of 10 MW of residential boiler capacity from fossil fuels to biomass within some months.



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REPLACE in action!

Substantial fuel oil boiler replacements in Slovenia



Everyone who wants to apply for a subsidy for climate-friendly heating is automatically recommended to use REPLACE Calculator.

Campaign “Replace fuel oil for the sake of the environment” resulted in replacement over 130 fuel oil boilers with heat pumps.



**ZAMENJAJ OLJE
ZA OKOLJE**



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Thanks for your attention!

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Further info:

www.replace-project.eu



[linkedin.com/company/H2020-Replace](https://www.linkedin.com/company/H2020-Replace)



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