



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

Dear Sir or Madam,  
Dear interested parties,

climate change makes it necessary to switch from fossil to renewable heating and cooling systems. After all, we use half of the energy in Europe for heating and cooling. Two thirds of the installed heating systems are inefficient. At the same time, the motivation to switch systems is intensified by the current political situation, the dependence on oil, gas and coal from Russia and the rising energy prices.

The REPLACE project is more relevant than ever and supports the transition to heating and cooling with renewable energies.

**In nine regions in Europe, we have implemented heating replacement actions. You can find highlights in the newsletter. For example**

- *A web-based one-stop-shop* to make it easy for end users to replace their heating systems.
- *Feasibility studies* to make heating exchange manageable even in times of high energy prices.
- *An open house day* to promote renewable cooling in a tourist region.
- *A techno-economic study* to make heating exchange assessable also for a multi-apartment building.

You are welcome to contact the REPLACE partners if you would like to implement a similar action and have any questions.

**Furthermore, you and all interested parties can use the REPLACE tools for heating exchange:**

- The *REPLACE your Heating System Calculator* gives an overview of costs and savings of renewable systems for your own replacement project,
- the *REPLACE Heating Matrix* shows which heating systems are particularly suitable for which types of buildings,

- the *Handbooks for end customers and professionals* provide information on reasons for heating system replacement, renewable options and planning steps.
- and the *Best Practice Examples* show renovation and heating exchange projects that have already been realised in the project regions.

We would be happy to support you in your replacement projects – whether by offerings of our boiler or oven replacement campaigns or with our online tools and materials. Up-to-date information on our offers and services can be found on our website [www.replace-project.eu](http://www.replace-project.eu) and in the social media. If you have any comments or suggestions, we look forward to hearing from you.

Yours

Team REPLACE

## Highlights from the REPLACE regions



**[Web-based one-stop-shop for fuel oil & gas boiler replacements \(Austria\).](#)** To replace a heating or cooling system can be complex and time-consuming. Since July 2022, the Austrian one-stop-shop offers people everything they need for a climate-friendly heating changeover – via one contact person coordinating all issues.



**[Bringing innovations in times of the global energy crisis – pre-feasibility studies help to overcome obstacles \(Bosnia and Herzegovina\).](#)** When energy prices for pellets are high, switching to more sustainable heating systems can be difficult. REPLACE partner ENOVA implemented pre-feasibility studies to make replacements manageable for end consumers.



**[From old coal boilers to renewable heating technologies – benefiting from the REPLACE calculator \(Bulgaria\).](#)** In the Rhodope region, the REPLACE your Heating System Calculator helped many to identify the best heating option for their home. See examples of two houses in the town of Bratsigovo, both using a combination of firewood and coal.



**[Informing specialists on climate-friendly heating and cooling – REPLACE at largest fair \(Croatia\).](#)** Even professionals can use support when it comes to climate-friendly heating and cooling. REPLACE partner REGEA joined forces with a heating system company to inform specialists at the thirteenth Chamber of Commerce fair in Krapina-Zagorje County.



**Renewable energy systems in a tourist environment – first hand experience at an open house day (Croatia).** In a popular holiday destination in Croatia, the energy demand is high for cooling in summer. At an open house day, landlords with a similar challenge received answers to their questions and got enthusiastic about a renewable cooling system “in action”.



**Field trips to private and municipal heating networks – for imitators and future customers (Germany).** Heating networks powered by renewable energies can be a good lever for climate protection. And they offer the possibility of becoming independent of fluctuating energy prices and oil and gas supplies from abroad. Two field trips in the Bavarian Oberland offered insight into their planning, building and operation.



**Purchasing renewable heating systems for multi-apartment buildings? Techno-economic study creates an overview (North Macedonia).** If you are thinking of purchasing a renewable heating system not only for your own house, but for a multi-apartment building, the process is easier if you can assess in advance whether the purchase is worthwhile. REPLACE partner SDEWES developed a techno-economic study for a representative building in the KaGoP region that showed promising results.




**Holistic energy renovation in line with REPLACE – Ljubljana family faces energy bills calmly (Slovenia).** One of the REPLACE model cases of best practice in Slovenia is the holistic energy renovation of a row house of the Županič family in Ljubljana. As envisaged in the REPLACE project, the family installed a climate-friendly heating system, while at the same time reducing their energy consumption through renovation measures.




**Where replacing old boilers saves even more CO2 and money – focusing on a particularly rewarding region (Spain).** To replace fossil fuels, the Spanish REPLACE partners EREN and Escan promote the use of biomass. In cooperation with their REPLACE Working Group, they have chosen a region where replacements save up to 80% in energy and money.


1
Basic info about house and heating system
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How much energy does your house need? What about the building services?  
How do you prepare your hot water?  
With your information we will check which alternatives to the existing heating system are suitable for your building.

  
Existing building

Altitude

  
0-500m

  
500-1000m

  
1000-1500m

Your heated living space

175


m<sup>2</sup>


Residents

4

people

Heat distribution

  
Central heating  
(with distribution system)

  
Oven (without distribution system)

Your existing heating system

v Please choose ...

Consumption of your heating

0

Age of your heating

20

years

2
Basic conditions

3
Result

What are the annual costs of a heating system and what is the best solution for my building? The REPLACE your Heating System Calculator gives a first overview, adapted to each project region.

The REPLACE your [Heating System Calculator](#) is online. It helps end consumers, intermediaries and investors to find the best future-proof, resilient and climate-friendly alternative to an old heating system in just three steps. Almost like an energy consultation. The calculator is tailored to the situation in [9 European target regions](#) and works in 7 languages (BiH, DE, BG, ES, HR, MK, SL).

The REPLACE [Heating Matrices](#) are available. In a tabular overview, a scale from green over yellow to red indicates which heating system fits best to a certain building type. Systems marked in green are characterized by high overall efficiency, low CO2 emissions, reasonable investment costs and high heating comfort.

**Replacement [handbook for end consumers](#):** Why should I replace my heating system? What climate-friendly options are there, how does a heating system replacement work in practice and what steps can be taken? The handbook provides compact answers to all these frequently asked questions.

**Replacement [handbook for intermediaries and investors](#):** The handbook delivers in-depth knowledge of state-of-the-art renewable heating and cooling systems, gives professional planning and implementation guidance, informs about economic issues, best practices and innovative business models, up to model contracts.

**[Best practice examples](#) from all REPLACE regions:** Examples show how replacements can be implemented under real local conditions. They cover residential building refurbishment, heating and cooling replacement, demand-response and collective actions, innovative approaches like utilising mobile heating units or innovative building renovations.



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## Stay informed and involved – REPLACE on social media channels

<https://twitter.com/H2020Replace>

<https://www.linkedin.com/company/h2020replace>

<https://www.facebook.com/H2020REPLACE/>



*The REPLACE team at the kick-off meeting in Vienna, November 2019. Copyright: AEA*

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## Legal disclaimer

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