

Replace Your Heating System Calculator

Supportive energy advise tool



AUSTRIAN ENERGY AGENCY

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



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Disclaimer: The views expressed in this presentation are the sole responsibility of the author and do not necessarily reflect the views of the REPLACE consortium



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Objective

- Give orientation and enable **informed decisions** in the **residential heating sector** (end consumers, investors, owners etc.)
- **Replacement** of an existing, old
 - fuel oil
 - natural gas
 - coal or log-wood
- **heating system** (boiler or ovens; depending on region)
- by **new, clean and climate-friendly** solutions.



Scope

- When looking for a new heating system, there are **many things to consider**:
 - What **technologies and fuels are available**?
 - Which **subsidy programs** can be taken into account, how does the affect costs?
 - What about the **cost of heating** when I look at **more than just the initial cost**?
- This calculator gives **answers based on annual full costs**.
- Should enable to **find the best solution for ones house**
 - e.g. together with your energy consultant or your installer.



Dissemination

- REPLACE your **Heating System Calculator**
 - **free of charge** “energy advise” tool
 - energieinstitut.at/tools/Replace
- **White-label tool option**; Businesses, installers, energy advisers, municipal energy offices etc. can **integrate** the **Calculator via a frame** into their own website or **place a link** to the Calculators landing page on the **own website**.
 - Please [contact](#) your national REPLACE project partner
- The calculator will be **hosted until 30.11.2025**.



Features

- Based on the Austrian klimaaktiv [Hexit calculator](#) (of the Ministry for Climate Action).
- The **calculator is tailored** to the situation
 - in **8 European target regions** (AT, BiH, DE, BG, ES, HR, MK, SL) and
- **works in 7 languages** (incl. EN for every region)
- features **technical and economical default values**
 - applying to heating system renovations in residential buildings,
 - ranging from single-family houses to
 - block of flats with up to 20,000 l/a heating oil equivalent (i.e. 20 MWh/a).



Results

- **Annual full heating costs, i.e.**
 - **full cost comparison** of the
 - annuity of reference investment,
 - service and maintenance, fuel and CO2 costs
 - any subsidies available in the 8 target regions (if any) are considered.
- **Annual cost savings and annual CO2 emissions avoided**
 - compared to existing heating system.



The way it works – the user can easily define

Step 1

- the actual energy consumption of the heated building
- the type of existing heat delivery and hot water preparation system

Step 2

- the possibility of a connection to a local or district heating network
- the availability of a solid biomass fuel storage room
- the accessibility with a wood pellets lorry

Step 3 = results, i.e. techno-economical comparison of green alternatives



Features

- Assists end consumers, intermediaries (like installers, energy advisers etc.) and investors by a
 - **Quick mode** (3 Steps)
 - **Professional mode**;
 - in step 3 (results) actual project-specific cost values are considered
- Further information like **technology factsheets**, (regional) **best practice examples** and **useful contacts** for boiler and oven replacements are provided, etc.



Demonstration by an example

- energieinstitut.at/tools/Replace



Contact



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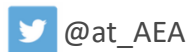
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