EHI brings together manufacturers of heating systems in Europe



Can we decarbonise buildings by 2050?

Ambitious goal!

Why? Because buildings represent



41% of final energy consumption

36% of CO2 emissions

Of Europe



Over 80% of this energy is used to heat buildings and produce hot water

What is the challenge for heating?

• Over 64% of heaters in Europe are **old and inefficient**



Total EU 27 - 2017

Over **66 million** appliances in classes C, D or lower

And this the macro picture

At national level there are **many differences**

Source: EHI 2017

Different installed stock of heaters in Europe...



... different characteristics of the heating market in Europe

European Heating Industry



Hence: different solutions are needed

What are the solutions?

- Renovation Wave: replace old and inefficient heating equipment with new and efficient technologies
- You have probably heard their names



- And these are just some examples!
- Accelerating the replacement of old and inefficient appliances from 4 to 5% = **40% CO2 cuts by 2030!**

To achieve full decarbonisation for EU buildings we also need

Better insulation

Very important: decarbonise energy carriers used for heating!

This means:

Green electricity

Green gases

This is where **biogas** comes to play, as well as hydrogen



Efficient heating systems can already run on 100% renewable biomethane

- Use of existing infrastructure gas distribution systems are designed to bring energy to Europe's buildings.
- Modern heating systems: no adaptation required
- Important: use efficient heating appliances - efficiency is key to achieve decarbonisation!



How do we get there? Some relevant policies

- Accelerate replacement of old and inefficient heating installations e.g. scrappage schemes
- Favour production of renewable and decarbonised gases and use them for heating
 - EU-wide targets for decarbonised and renewable gases
 - Support installation of heating technologies working with these gases
 - Develop technical rules for the interaction between these gases and heaters
- Enable and promote **digital heating** systems. E.g. hybrid heat pumps can switch from electricity to gas depending on renewables availability.



We can decarbonise Europe's buildings by 2050!

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