

How HERU saves carbon for UK homes



2.4 people

UK homes average
2.4 occupants



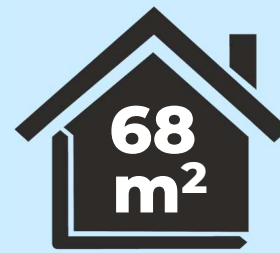
1 tonne

Annual home
waste [DEFRA]



27M homes

173,660 completed new
builds in the year to 06/19

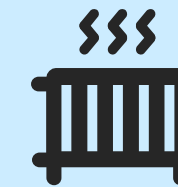


Which? report
average UK
home size



1460kWh

Domestic hot water
use averages 4kWh
per day / home [BRE]



6,800kWh

Space heating in
current new builds
uses 100kWh/m²a

New builds 2019

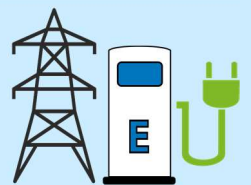


**+1.6 tonnes
CO₂/a per home**

- Gas condensing boiler
- Kerb side sorting



Kerb Side Sorting is to date the least
carbon intensive waste management option,
emitting 50kg less CO₂ per home, per year
than comingled collections [Ricardo]



Decarbonisation of the UK
electricity grid (equivalent to
Norway 2012 'NO12') and rapid
expansion of infrastructure



DEFRA: Packaging recovery note
system to be replaced with packaging
processing levy, to fund low carbon
solutions to waste issues



Carbon reduction &
prevention of microplastic
food chain contamination
with HERU



Gas Safe registered
plumbers and installers
have the skillset needed
to install HERU



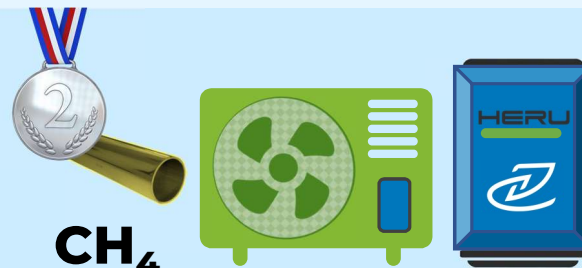
- Heat Pump with SCOP 2.8
- Decarbonised grid (NO12)
- Kerb side sorting

-5kg CO₂/a **Install cost
£6k**



- Retention of natural gas supply
- Decarbonised grid (NO12)
- 'Zero Carbon' building (3128kWh/a)
- HERU resource management

-80kg CO₂/a **Install cost
£6k**



- Retention of natural gas supply
- Decarbonised grid (NO12)
- Heat Pump with SCOP 2.8
- HERU resource management

-375kg CO₂/a **Install cost
£12k**



- Switch gas network to Hydrogen
- Decarbonised grid (NO12)
- HERU resource management

-475kg CO₂/a **Install cost
£6k**

HERU H₂ Hybrid &
NO12 Electricity
would have made
the 2019 UK
environment

**365k
tonnes CO₂/a
better off**



A gas supply is critical for driving carbon reduction innovations like HERU