

Pathway zero

“Just do something”

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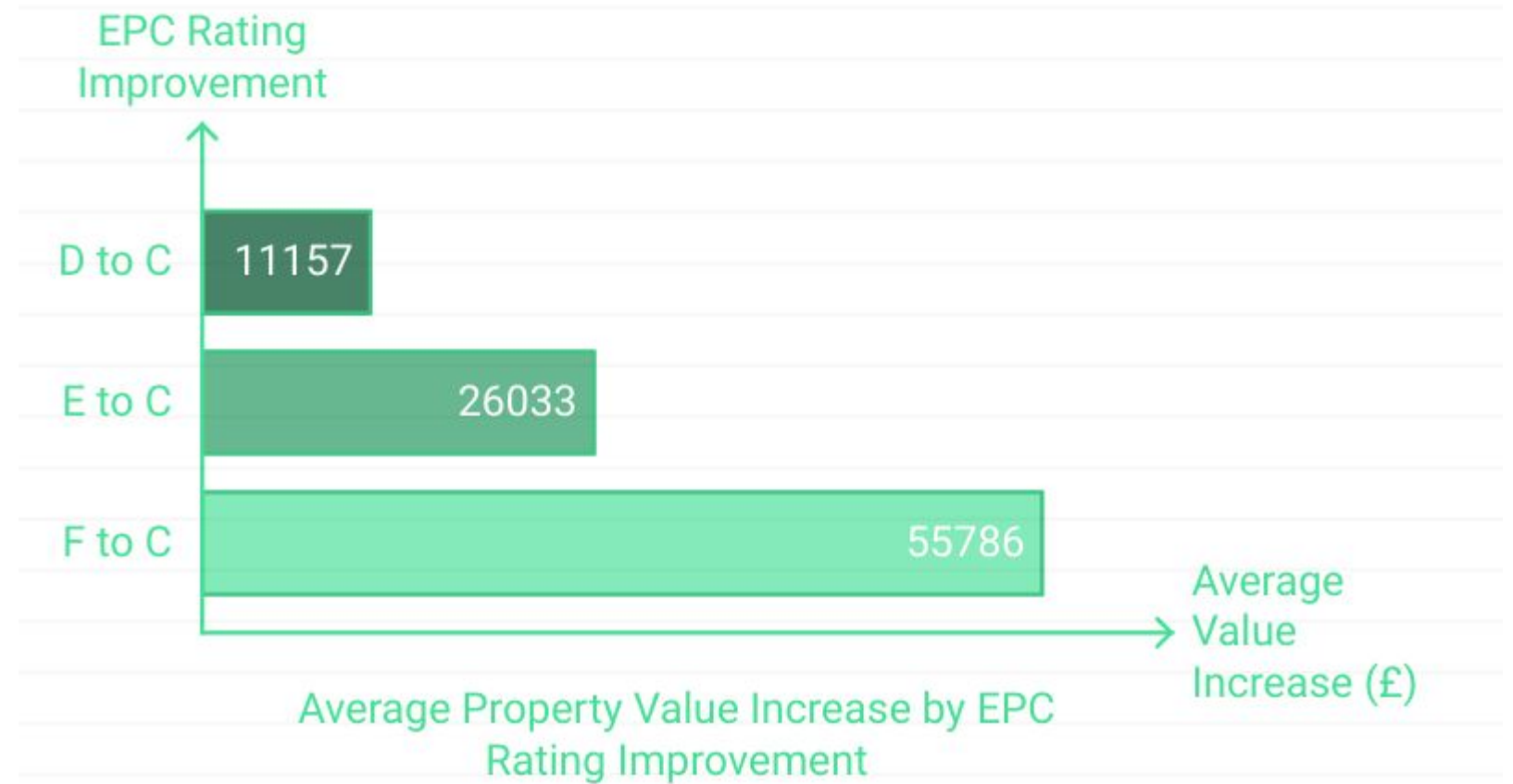
Rightmove Greener Homes Report

80% of current buildings will be inhabited in 2050.

6% of buildings moved into the A-C rating between 2019-2023.

At this rate it will take 43 years to get all properties to SAP C.

19% of renters say energy bills are factor in choosing a home.



Your Annual Energy Summary



Your house currently consumes

**3 500
kWh
of electricity**

**15 000
kWh
of gas**

This is equivalent to

**3.43t
tonnes CO₂**

**80
trees**

| | Energy Used (kWh) | Annual Spending (£) | Carbon Footprint (Tonnes of CO ₂) |
|---------------|----------------------|------------------------|--|
| Space Heating | 12 000 | £ 640 | 2.24 Tonnes |
| Hot water | 3 000 | £163 | 0.51 Tonnes |
| Electricity | 3 500 | £865 | 0.68 Tonnes |
| TOTAL | 18 500 | £1,668 | 3.43 Tonnes |

By implementing energy efficiency measures and moving to renewables you could get down to

**<0.50
Tonnes of CO₂**

Change behaviours and save energy

Walls: 35%

Roof: 25%



Floor: 15%

Windows: 25%

Heat escapes from your home through the roof, walls, floor and windows

Boiler Controls

- Turn down your thermostat 1° savings £84
- Reduce the boiler flow temperatures down to 60° £ 84
- Balance your heating system £67

Appliances

- Don't overfill kettle £30
- Wash at 30° £45
- Turn off appliances £50
- Switch from fan heaters to infrared - save 90%

Fabric improvements

- Draw curtains at dusk £117
- Cut down on heat leaks by draught proofing doors and windows £50
- Install a chimney a balloon £40

Lagging

- Lag hot water pipes £60
- Hot water tanks should have 80mm of insulation, if not install at hot water jacket £50
- Radiator foil £40
- Thermal blankets and gilets (lagging)

Energy Efficiency Technologies



SMART RADIATOR VALVES

Smart radiator valves enable to heat different radiators at different times of day to different temperatures, saving 20% on your heating costs.

- **Cost to install:** £240
- **Energy saving pa:** £110 (12.5%)
- **Payback (years)** 2.18 years

• **Cost to install:** £250

• **Energy saving pa:** £88 (10%)

• **Payback (years)** 2.84

SMART THERMOSTAT

Smart thermostats learn heating patterns, understand the fabric of the house and consider outside temperatures when heating the home, saving 10% on heating costs

LED LIGHTING

LED bulbs can be up to 80% more energy efficient than conventional bulbs and last 10x longer.

- **Cost to install:** £36
- **Energy saving pa:** £153
- **Payback (years)** 0.25

Hydromx Heat Transfer Solution



Hydromx

Hydromx is a nanotechnology heat transfer solution which is used to improve the heat transfer within a closed-loop heating system such as a boiler and radiators. This is achieved by reaching the required temperature faster, meaning that the energy required is vastly reduced, therefore saving money and cutting carbon emissions.

- **Cost to install:** £1500
- **Energy saving pa:** £280
- **Payback (years):** 5.35
- **CO2 saved pa:** 0.75 tonnes
- **Boiler life extension saving:** £33 a year

The benefits of Hydromx:

- Reduces heating demand by 20-35% with commensurate carbon savings
- Cuts gas flue emissions, improving air quality
- Warms home quicker 2.4 times quicker
- Installation is quick with minimum disruption.
- Little annual maintenance and extends boiler life
- 20-year warranty protection against corrosion and freezing.

Grants



Great British Insulation Scheme

The scheme provides free or cheaper insulation to eligible households including homeowners, landlords and tenants. The scheme covers cavity wall and loft insulation only. Energy Supplier lead process.

Eligibility:

- EPC rating D-G
- Council Tax band A-D
- Household income/ Income support

Warm Homes Grant

The scheme providing funding for renewable heat and energy efficiency measures. Launches in April 2025. LA lead grant scheme. GLA has bid for \$600m of funding over 3 years. Up to £30k of funding.

Eligibility:

- One of : IMD eligible postcode/ Income support/ Income under £36k
- Landlords: 1 property only. 50% match funding.
- EPC rating D-G

Radiant heating options

Infrared heat is a form of radiant heat, similar to the sun. While traditional radiators heat a room through convection heat, far infrared heats people and objects, providing a more efficient and effective way of heating a space.

The sector is pushing for regulatory approval to be considered a renewable heat source with efficiency rates of 250%.

Worth considering in conservation areas, where damp is an issue and for those who living a few rooms in a large house.

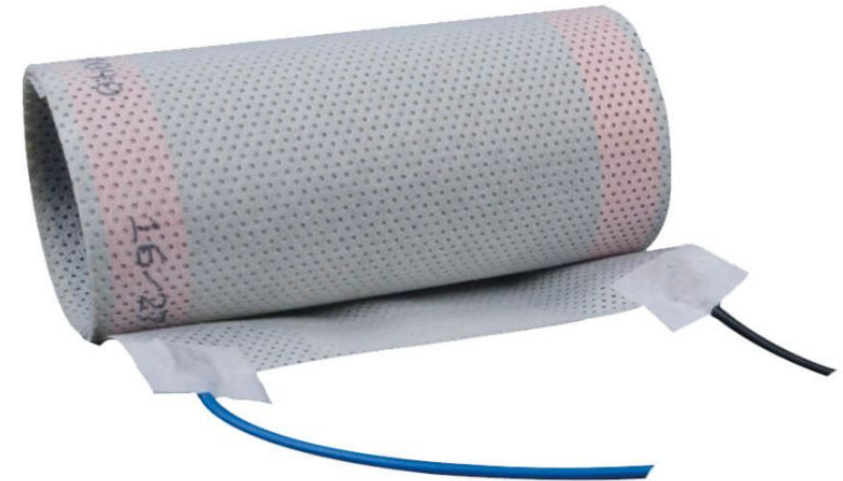
Infrared Heating panels

The oldest of the technologies. These panels can be fixed to walls or ceiling. They heat up to between 100° and 120° and quickly start to beam heat onto room occupants, so heat can be felt within 1-2 minutes. Within 30-40 minutes walls, floors and furniture will start to emit heat and so warm the air temp. They can be controlled with in-room thermostats and through smart apps.



Carbon fibre heat

Works in a similar fashion to IR panels but the surface temperature only rises to 35-40°. Install in ceilings and sometimes walls. Offering a larger surface area and more even heat. The rolls are embedded into the ceiling, so are unseen once installed. Controls can be via thermostats or occupancy sensors.



Insulation

Walls: 35%

Roof: 25%



Floor: 15%

Windows: 25%

Heat escapes from your home through the roof, walls, floor and windows

WALL INSULATION

Solid Wall Insulation

- Cost to install: £150-260/sqm
 - Energy saving pa: £290
 - CO2 saved pa: 0.80 tonnes

Affordable option: Cork Sol

LOFT INSULATION

- Cost to install: £300-£600
- Energy saving pa: £210
- CO2 saved pa: 0.56 tonnes
- Requirement now 270mm

FLOOR INSULATION

Solid, Suspended or Timber

- Cost to install: £2500
- Energy saving pa: £84
- CO2 saved p.a.: 0.22 tonnes

WINDOW GLAZING

Double or Triple

- Cost per window: £400-£600
 - Energy saving pa: £128
 - CO2 saved pa: 0.56 tonnes

Affordable option: Acrylic glazing

#JustDoSomething

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**Find out more and
book a home energy
assessment**

