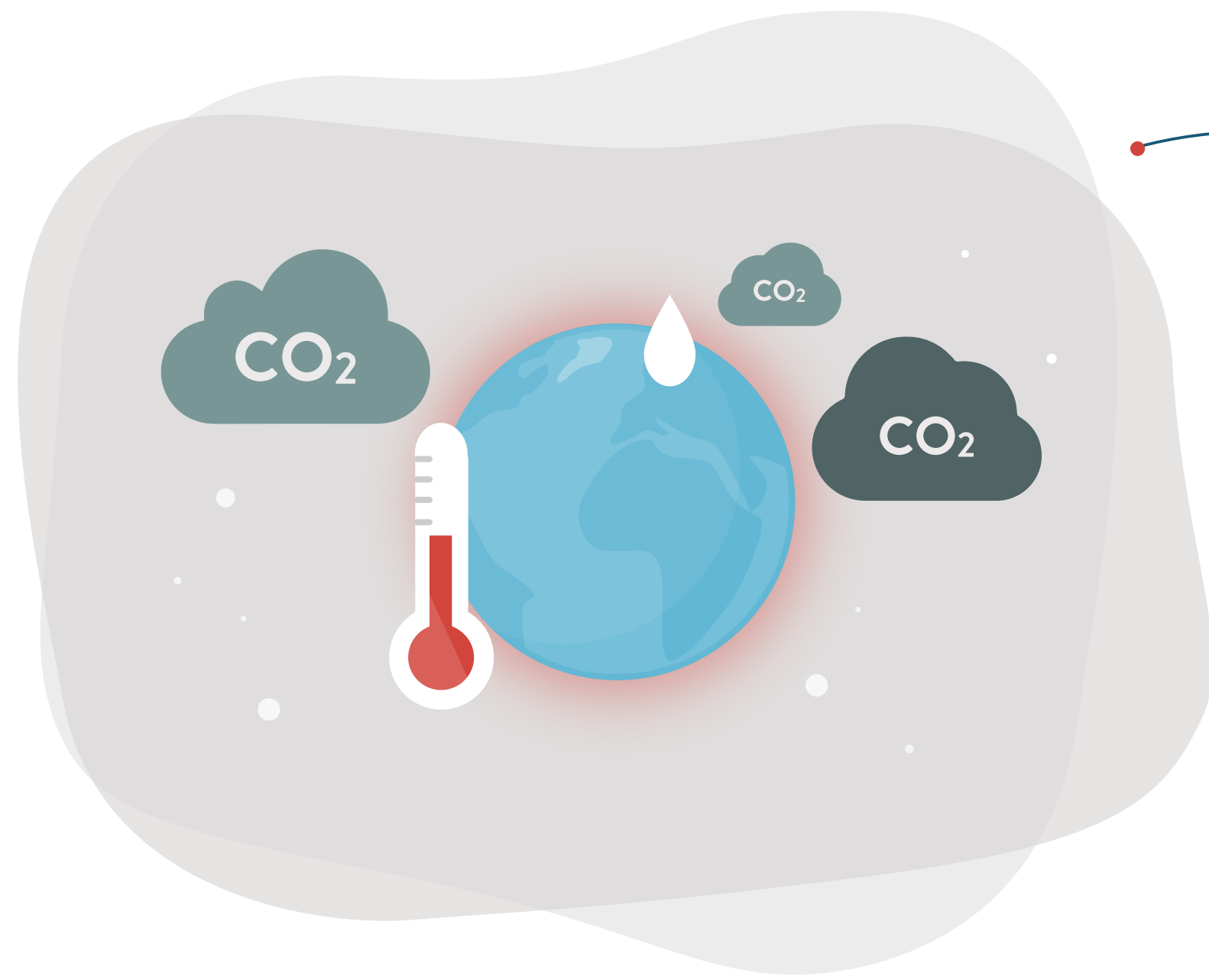


# The Hy4Heat Programme

1 **Carbon Dioxide** is contributing to climate change and global warming



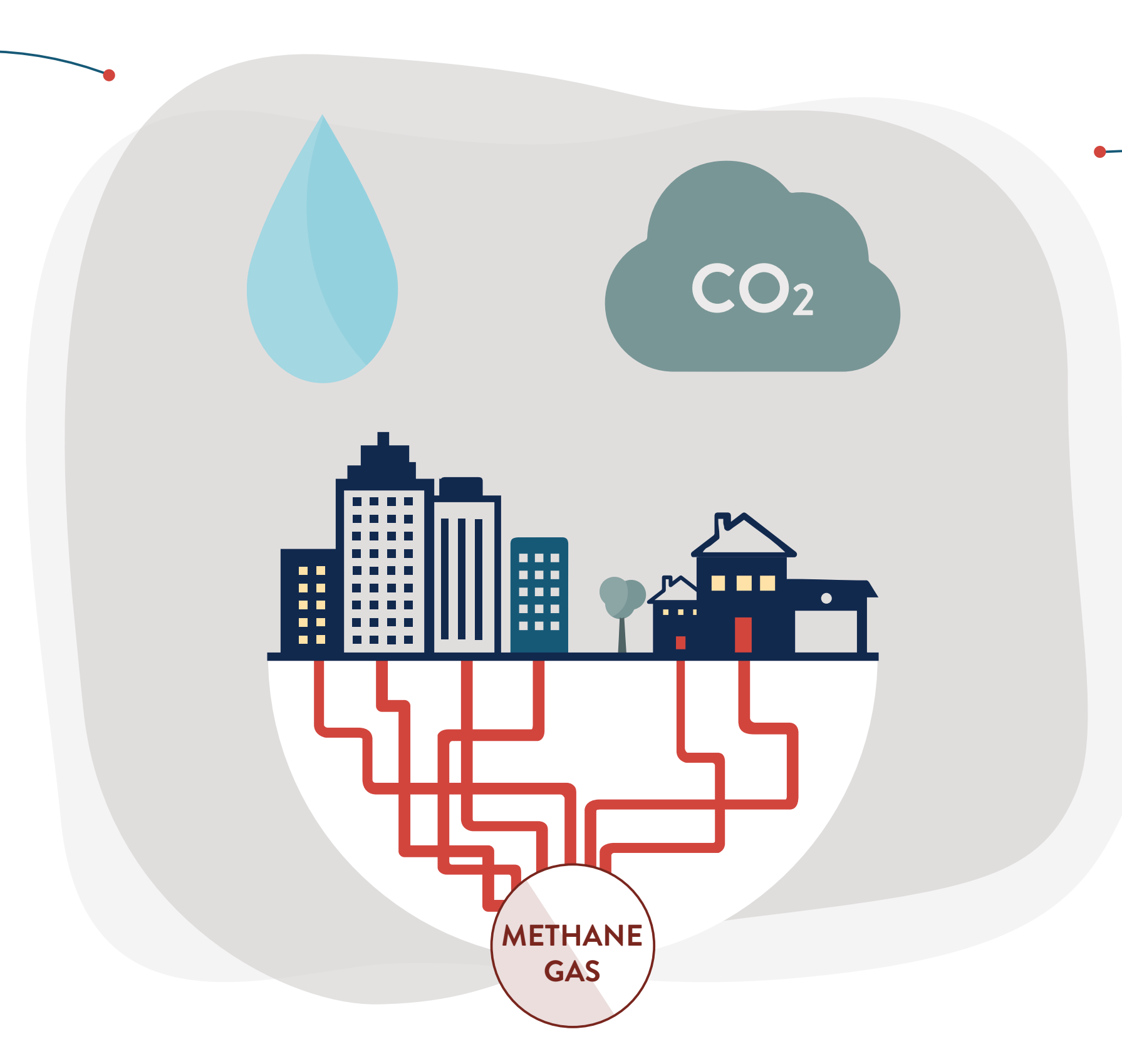
2 The UK government has a 2050 target to **reduce carbon emissions to net zero**



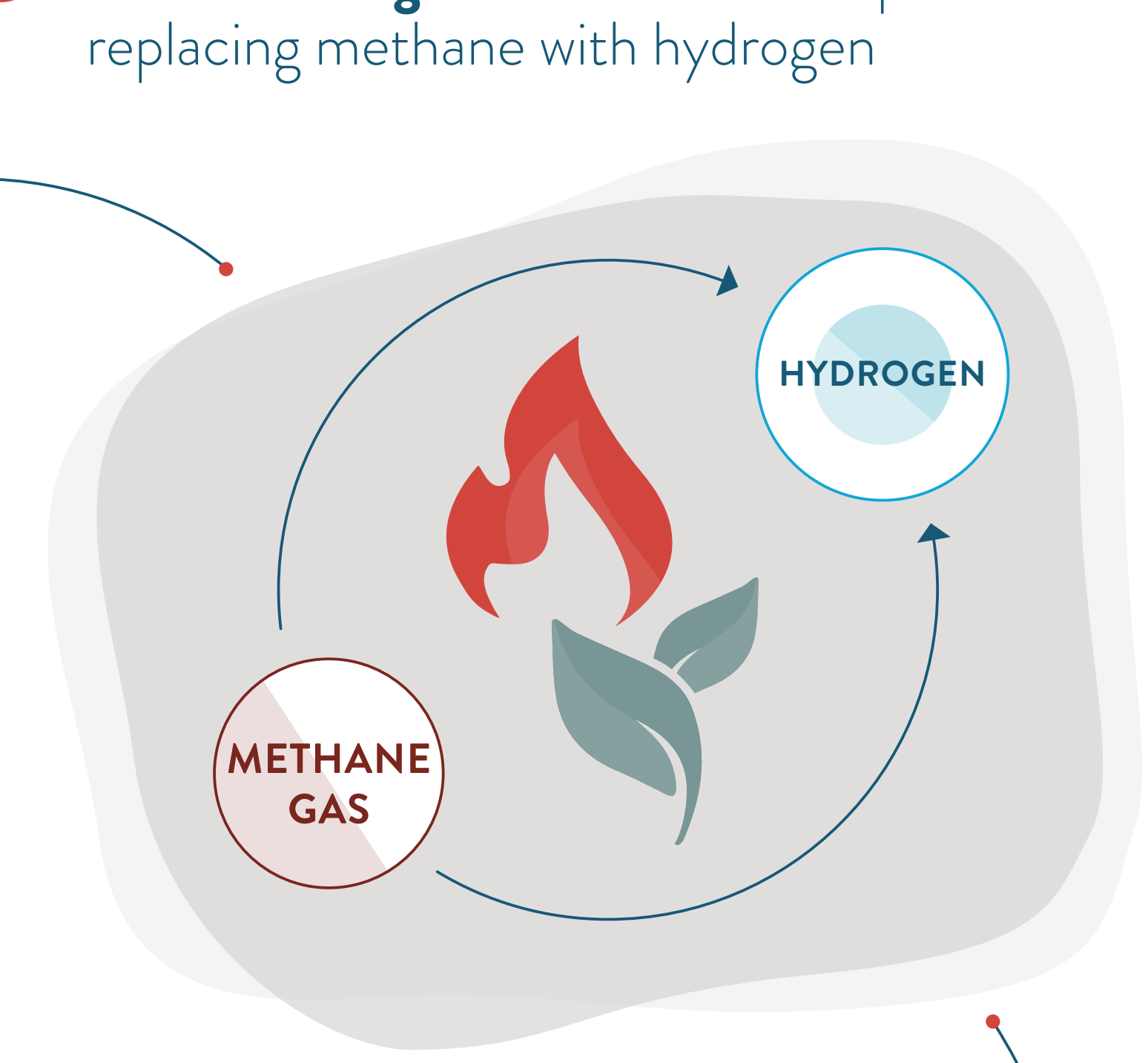
3 Heating and cooling UK homes is about **half all energy consumption and a third of carbon emissions**



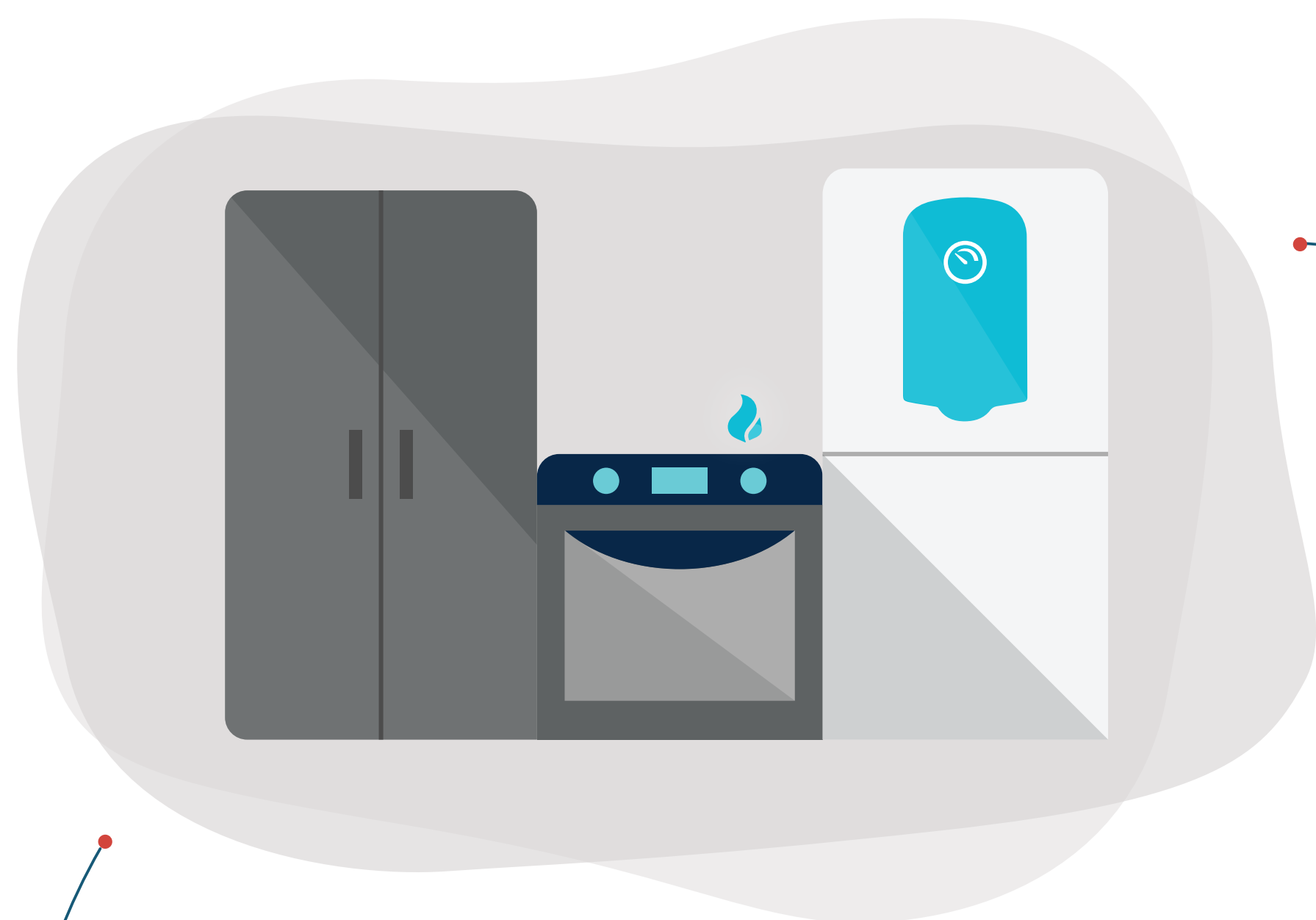
4 **80% of homes** use natural gas (methane). When used for heating and cooking, this releases water and carbon dioxide



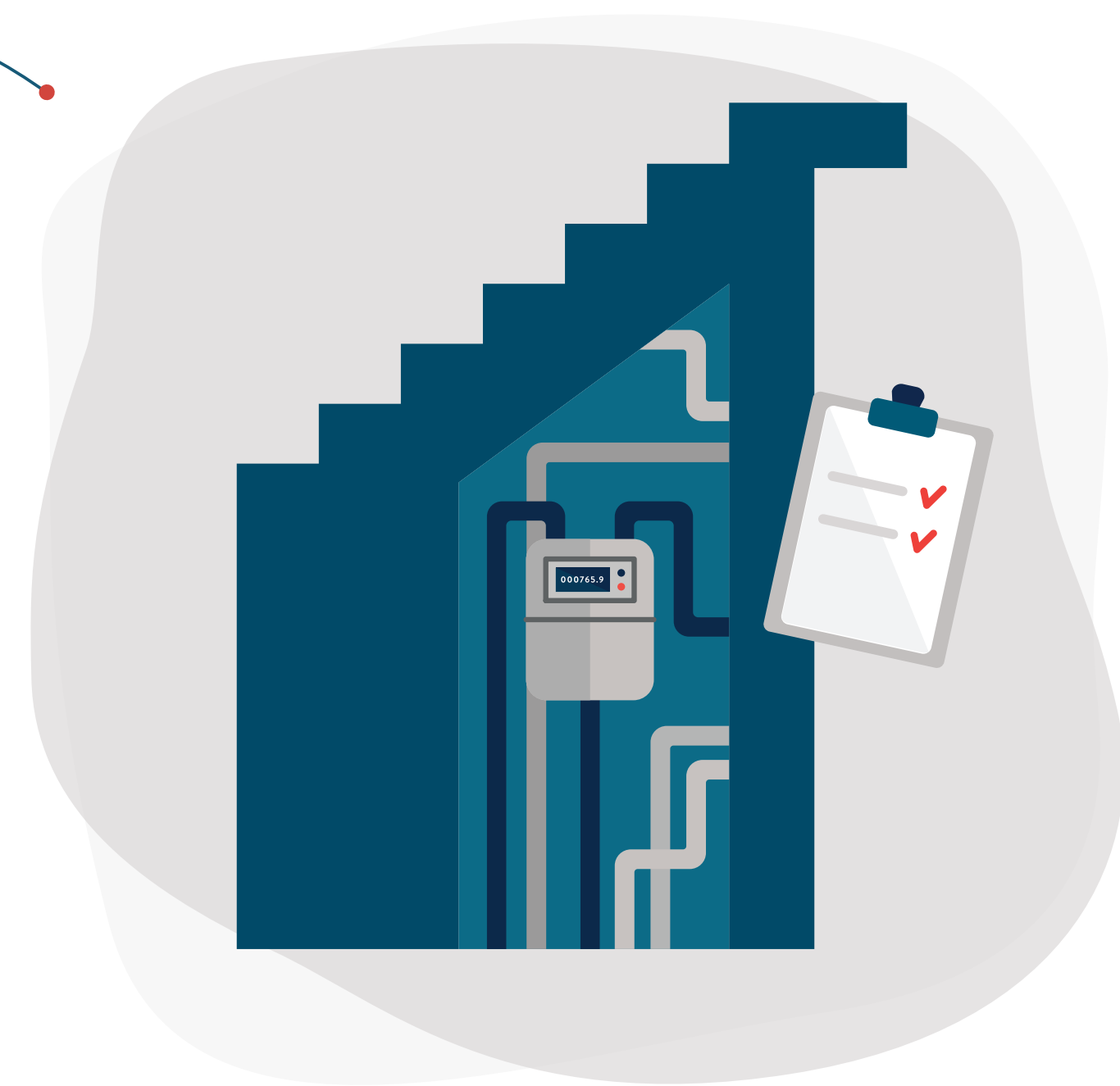
5 **BEIS** (Department for Business, Energy & Industrial Strategy) is looking at ways of **decarbonising heat**. One of the options is replacing methane with hydrogen



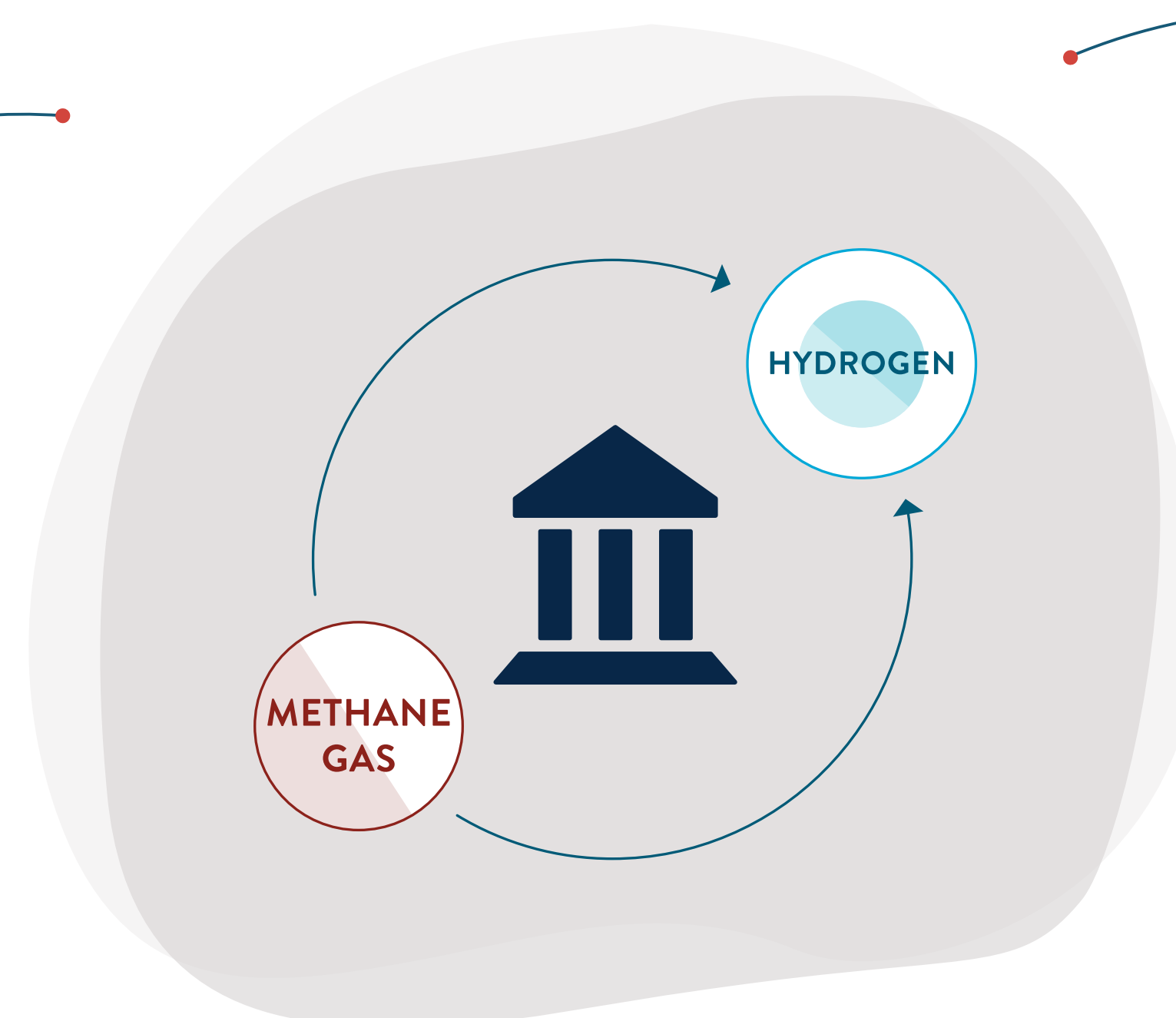
10 Then, over three or four days, new hydrogen-ready home appliances (boilers, cookers, fires and meters) would be fitted...



9 All buildings would be surveyed inside to make sure pipework was all in order



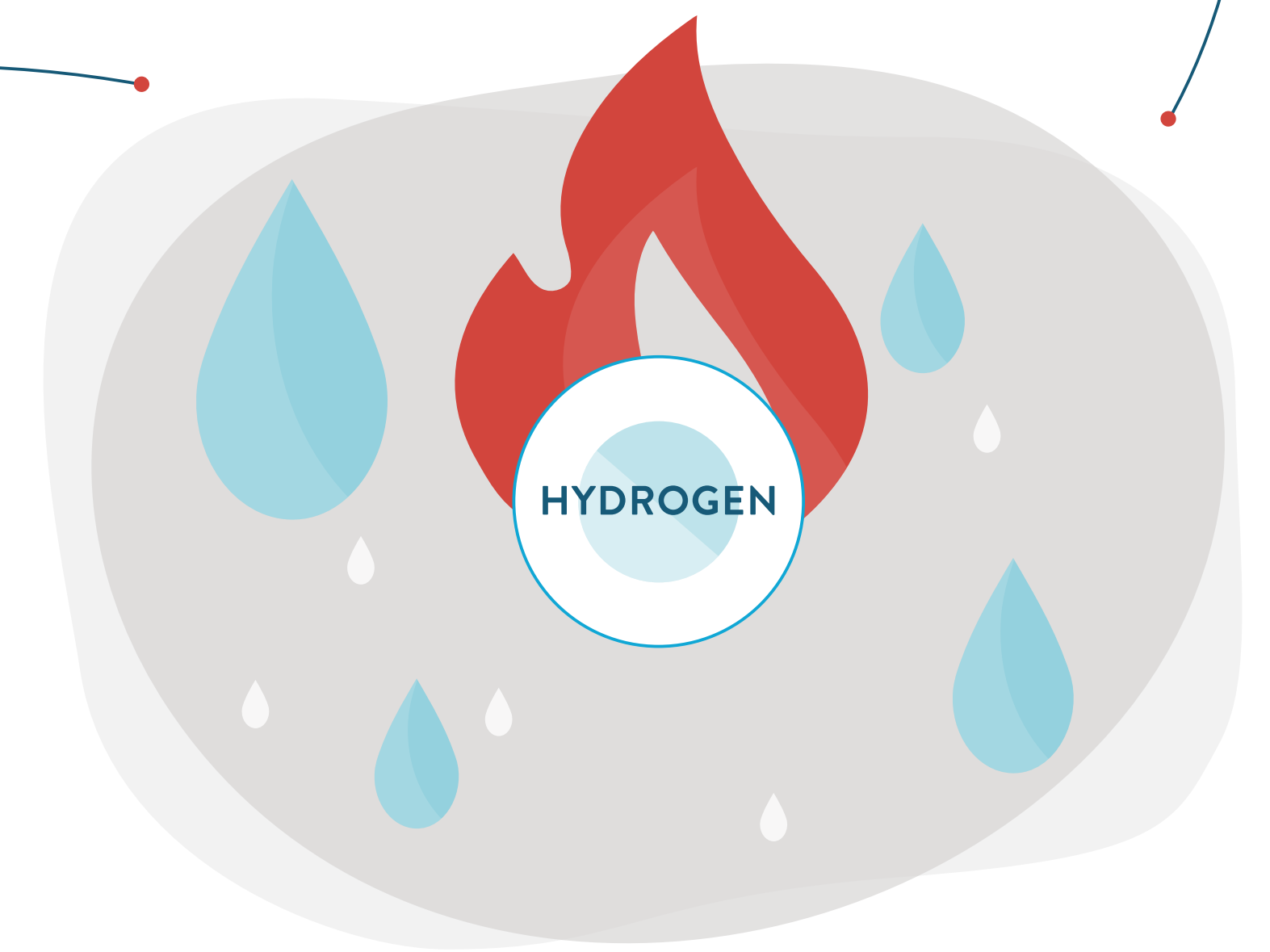
8 to help the government decide if it would support large parts of the UK gas grid changing to hydrogen



7 In the future local community of around 300 homes may be asked to take part in a pilot trial...



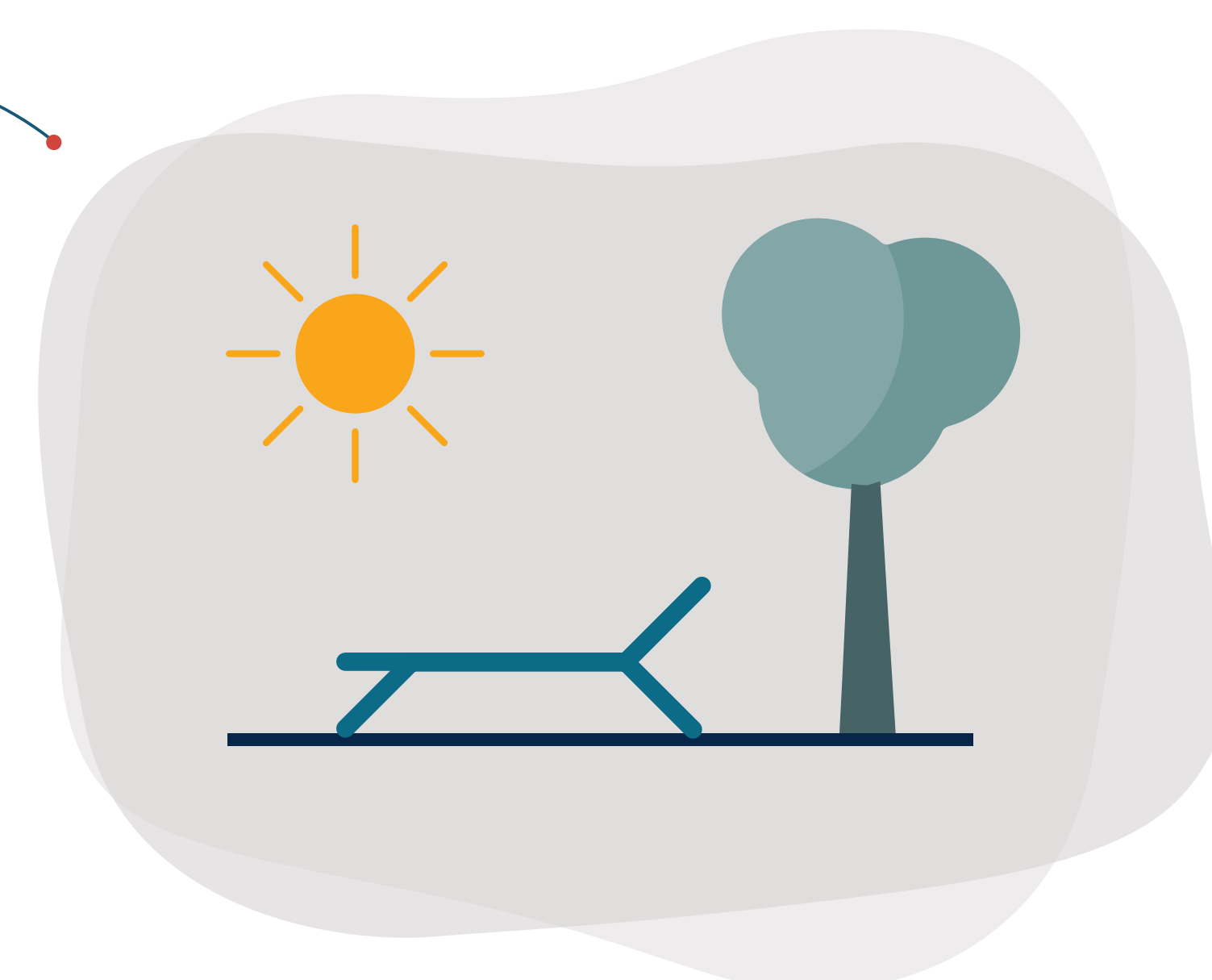
6 Hydrogen, when converted to heat **releases no carbon dioxide**



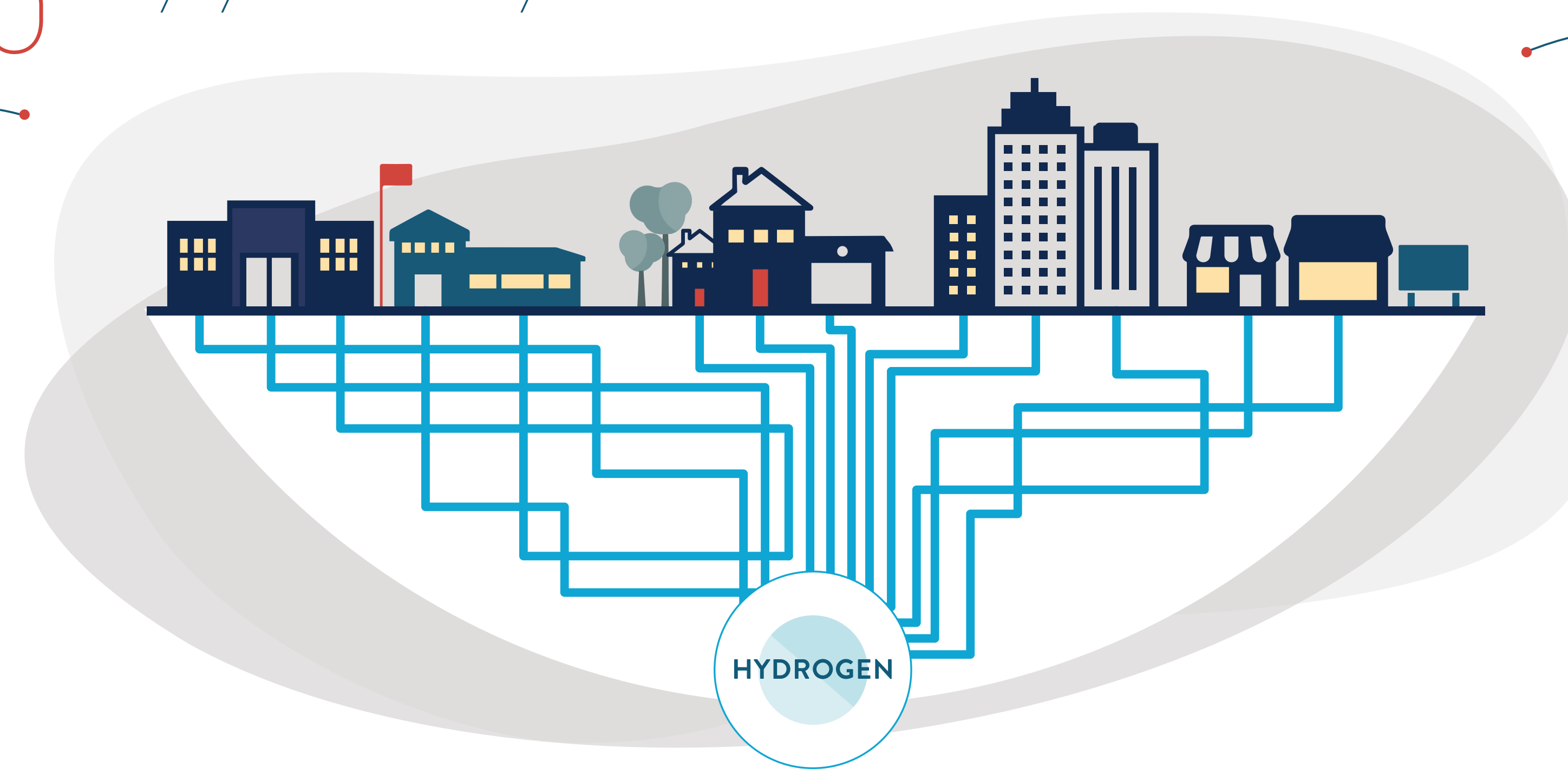
11 and the gas in the network changed from methane to hydrogen



12 This will happen over a few days in the summer, when there's warmer weather.



13 Then it's just back to the normal everyday routine for everyone...



14 Using hydrogen gas for heating and cooking means improved local air quality and no carbon dioxide adding to greenhouse gases

