## COSTS OF LOW CARBON HEATING

NATIONAL INFRASTRUCTURE COMMISSION

To meet legally-binding carbon targets, the UK must stop burning natural gas - a fossil fuel - for heating, by 2050. That will need alternative heating technology and better energy efficiency.



## ENERGY EFFICIENCY IS A NO-REGRETS INVESTMENT

Greater energy efficiency measures mean heating demand could be reduced by

## THERE ARE TWO LARGE SCALE OPTIONS: HEAT PUMPS OR HYDROGEN

BILL £

Much uncertainty exists around the costs, benefits and risks associated with both choices.





million tonnes CO<sub>2</sub>/year

Despite the large investment required, the total cost of heating as a share of national income will fall

Total heating system costs as a percentage of GDP



Sources: Cost analysis of future heat infrastructure options – report for the National Infrastructure Commission by Element Energy Limited and E4tech, March 2018; BEIS \*Estimate based on National Infrastructure Commission calculations