

Methodology

We recruited a sample of 1,996 UK adults

BIT worked with Nesta to test different messages aimed at increasing the number of people who would optimise their boiler temperature using an online representative sample of 1,996 UK adults between 8th February and 10th February 2022.

NOTE ON INTERPRETING RESULTS

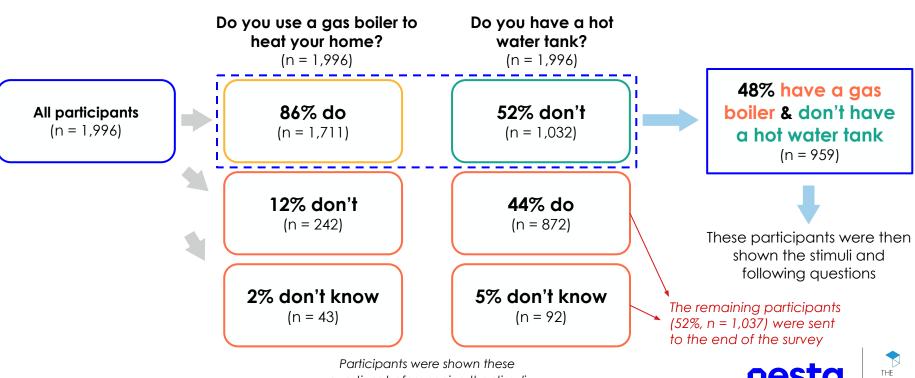
- 1. The sample doesn't capture the digitally excluded, or people not inclined to complete online surveys.
- 2. Just because people say they would do something in an online experiment, this doesn't mean they always will in real life. We therefore interpret stated intent as a likely upper bound of real behaviour.
- 3. When we examine differences by subgroups (e.g. gender, ethnicity), we only do so when the sample size remains large enough to draw robust inferences from.

Gender		Region		Ethnicity	
Women	53%	South & East	31%	White	86%
A	ge	North	25%	Asian	6%
18-24	12%	Midlands	17%	Black	3%
25-54	59%	Scot/NI/Wales	15%	Mixed / other	4%
55+	29%	London	12%		





48% of our sample have a gas boiler but don't have a hot water tank

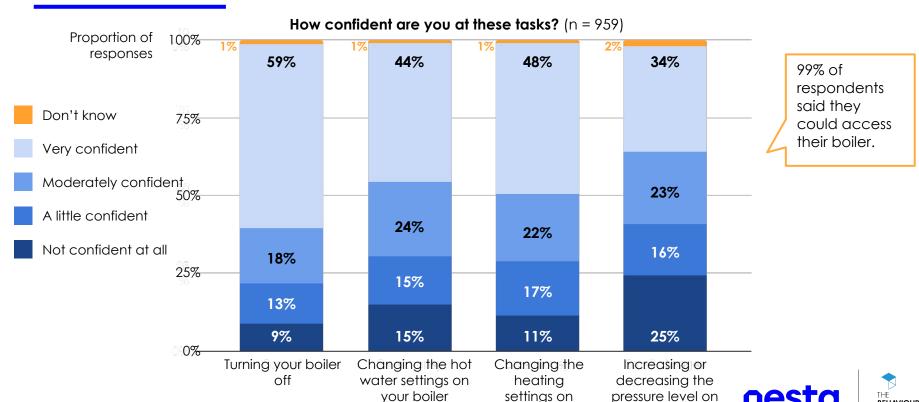


questions before seeing the stimuli





At least 1/3 of participants were very confident in the tasks; but around 1/4 were either not confident or 'a little confident' in the tasks



vour boiler

vour boiler



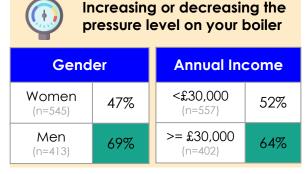
Men report higher confidence in changing boiler settings. Higher income makes a difference when it comes to changing the pressure.

- Various clustering strategies did not reveal any demographic clusters related to confidence in changing boiler settings.
- However we did find that gender and income independently were related to confidence in changing boiler settings.

Turning your boiler off				
Gender		Annual Income		
Women (n=545)	67%	\$30,000 (n=557)	39%	
Men (n=413)	90%	>= £30,000 (n=402)	35%	

settings on your boiler				
Gender		Annual Income		
Women (n=545)	59%	<£30,000 (n=557)	67%	
Men (n=413)	84%	>= £30,000 (n=402)	74%	

Changing the hot water settings on your boiler				
Gender		Annual Income		
Women (n=545)	57%	<£30,000 (n=557)	65%	
Men (n=413)	83%	>= £30,000 (n=402)	73%	



Exploratory analysis. Logistic regression including gender, age, ethnicity, income, urban/rural living, and region as predictors of confidence in changing boiler settings. Green shading identifies statistically significant at p < .05. Benjamini-Hochberg was used to control for the false discovery rate arising from multiple comparisons. Data collected by BIT on 08-10 February 2022..

Methodology

Participants first shown a screen stating that the experiment was about changing temperature settings on boilers

In the next section, you'll be asked about changing the temperature settings on your boiler.

The questions are <u>not</u> about changing the room temperature on your thermostat.









Methodology

Participants were randomly assigned to see one of 3 versions of the stimuli, or shown nothing in the control group

(Save money)

You could save hundreds of pounds each year by changing your boiler settings

Turning your boiler flow temperature down could reduce the amount of energy you need to heat your home



(Lose money)

You could be losing hundreds of pounds each year by not changing your boiler settings

Turning your boiler flow temperature down could reduce the amount of energy you need to heat your home



(Small changes)

Small changes can make a big difference to your energy consumption

Turning your boiler flow temperature down could reduce the amount of energy you need to heat your home



(Control)

NO STIMULUS

n = 253

n = 234

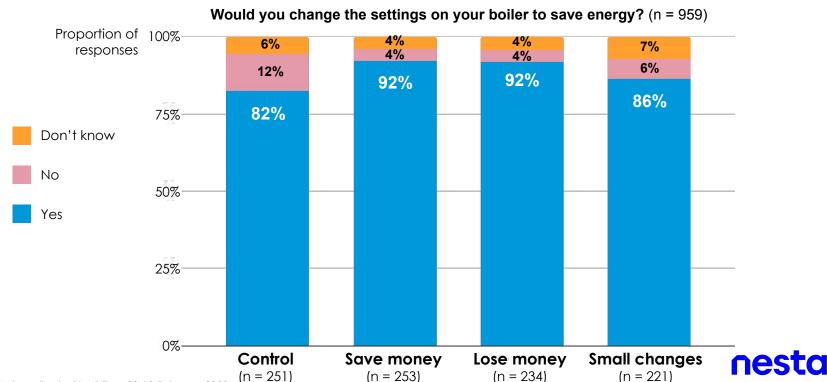
n = 221

n = 251





All stimuli resulted in more people saying they would change their boiler settings, with Save money and Lose money performing the best





The biggest barriers to changing settings were making a mistake (for those that would) or boilers already being correctly set (for those that wouldn't)

Top 3 barriers to changing boiler settings (n - 0.00)

Of respondents who would change their boiler settings...

(88% of participants, n = 846)



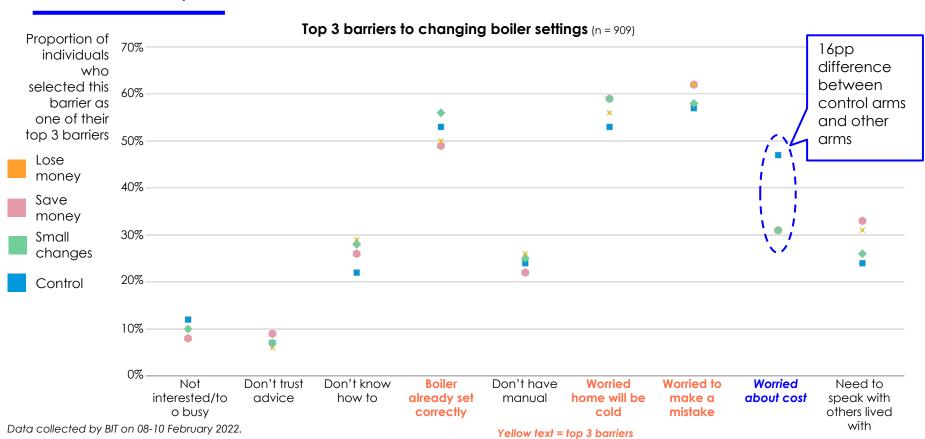
lop 3 parriers to changing poller settings (n = 909)				
<u>61%</u>	Worried I would make a mistake	<u>40%</u>		
<u>58%</u>	Worried my home would be cold	<u>51%</u>		
<u>51%</u>	Boiler already set correctly	<u>62%</u>		
36%	Worried about cost	33%		
30%	I would need to speak to those I live with first	17%		
25%	Don't know how to	25%		
25%	Don't have the boiler manual	24%		
8%	Not interested/too busy	32%		
. 7%	Don't trust this advice	16%		

Of respondents who wouldn't change their boiler settings...

(5% of participants, n = 63)



Individuals in the control group stated more often that worry about cost was a barrier, with limited differences for other barriers



63 participants provided reasons why they wouldn't change the settings on their boiler, as outlined below



The most common reason was not knowing/being concerned about doing something wrong

"I have no idea how to."

"I would not personally change the settings on our boiler. I would not want to fiddle with it in case I got it wrong. If we thought we would want to do this, even though."

"I'd be concerned I'd do something wrong."

"It seems too complicated."



Some were happy with the current settings

"Because I am happy that they are set at their most energy saving now."

"Because it wouldn't heat the house as quick."



Some were confused about what changing the boiler temperature does

"I prefer to moderate usage at the thermostat (room) end. The boiler also heats my water and I want the temperature stable."

"I want hot water."

"There's one dial to change the rooms heating and another to change the temperature of the water from the taps."

There were also other unique responses

"I have disabilities than require me keep at a certain temperature as too hot or too cold causes issues with my health."

"Need to keep heating on for medical reasons."

"The setting have been made by my plumber to be the most efficient so don't need to."





nesta





Get in touch:

Oli Berry

Research Advisor oli.berry@bi.team

Andrew Schein
Senior Advisor

andrew.schein@bi.team

Bobby Stuijfzand

Research Advisor bobby.stuijfzand@bi.team

