

## Supplement 2

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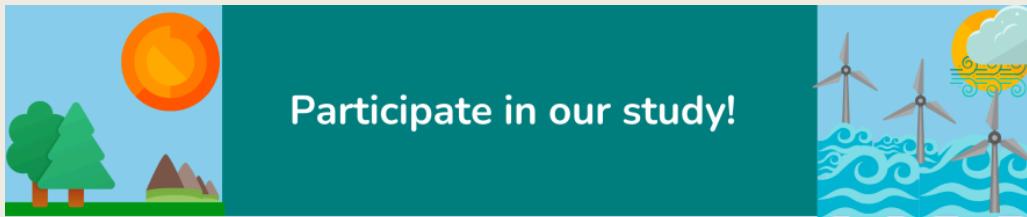
1. Study 1 online survey
2. Study 2 online survey
3. Study 3 online survey

1. Study 1 online survey

Welcome to the study investigating the impact of a switch to renewable energy!

You are invited to read the information below. Then click 'NEXT' for further instructions.

Thank you!



### Study invitation

We would like to invite you to take part if you are 18 to 65 years old, live in England AND currently drive a car. You should also be partly or completely responsible for paying your household's energy bills.

### What is this study about?

Electric power will play a bigger role in homes in the future. This is because more electricity will be made from renewable energy sources like solar and wind. Renewables do not provide constant power – the wind does not always blow and the sun does not always shine.

There are ways to make sure that energy is always available. For example, householders can buy, sell or donate energy using a smart phone app.

We want to better understand when and why householders might buy and sell energy in the future. This is important, because householders may form an important part of ensuring that the electricity grid maintains a constant power supply to everyone who needs it.

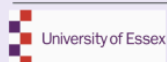


### What is involved if I decide to take part?

You should only participate if you want to; choosing not to take part will not disadvantage you in any way.

Before you decide, it is important for you to read the Participant Information Sheet carefully and discuss it with others if you wish.

After you click 'NEXT', you will be able to download the Participant Information Sheet to find out more!



University of Essex

ERAMS reference: ETH2324-0240

## Participant Information Sheet

### Investigating the impact of a switch to renewable energy

This study will take approximately 20 minutes.

You can withdraw from the study at any time by closing your browser.

Please note: Not everyone can take part in this particular study. **To be eligible you must be able to answer YES to all of the following:**

- I am 18 to 65 years old
- I currently live in England
- I drive a car
- I am wholly or partly responsible for my household's energy bills

If you answer **NO** to any of the above, please close your browser now.

Please download and read the [Participant Information Sheet](#) for full details about this study, then click 'NEXT' to proceed to the study.

## Informed Consent\_2023

### CONSENT FORM

Title of the Project: Investigating the impact of a switch to renewable energy

Researchers: Sheina Orbell, Riccardo Russo, Denise Wallace, Richard Philpot, Neive Wright

#### Statement of consent

Please read each statement carefully and click a box at the bottom of the page to continue.

1. I confirm that I am 18 years or older.
2. I agree to participate in the research project "Investigating the impact of a switch to renewable energy" being carried out by Sheina Orbell, Riccardo Russo, Denise Wallace, Richard Philpot and Neive Wright.
3. This agreement has been given voluntarily and without coercion.
4. I have been given full information about the study and contact details of the researchers.
5. I have read and understood the information provided above.
6. I agree to have my anonymised data shared on publicly accessible repositories.
7. I agree to be contacted in the future by the researchers.
8. I have had the opportunity to ask questions about the research and my participation in it.
9. I consent to having my anonymised data processed as described in the Participant Information Sheet, Ethics ID: ETH2324-0240 (Version 1).

I confirm I am 18 to 65 years, living in England and currently drive a car. I have read all of the above statements and agree to take part in this study.

- Yes I agree to take part
- No I do not agree to take part

### Are you paying attention?

**This study will require your full attention.**

**Please take a moment to make sure your phone is on silent and you won't have distractions for the next 15 - 20 min.**

**Press 'NEXT' when you are ready to start.**

### screen-out question: non-drivers are excluded from this study

Please select the option that best describes how often you drive.

- Daily
- 4 - 6 times per week
- 1 - 3 times per week
- less than once per week
- I have not driven a car in the last 2 years
- I have never driven a car

### screen-out question: non-bill payers are excluded from this study

Are you responsible (or jointly responsible) for the household energy bills?

- I am entirely responsible for the household energy bills
- I am responsible for some of the household energy bills
- I am not at all responsible for the household energy bills

### Age and Gender

What is your age?

(e.g. if you are 57 years old, enter the number 57 in the box)

What is your gender?

- Female
- Male
- Non-binary

I would like to describe my gender identity using the box below:

## Ethnicity

### What is your ethnic group?

Choose one option that best describes your ethnic group or background.

#### White

- English / Welsh / Scottish / Northern Irish / British
- Irish
- Gypsy or Irish Traveller
- Any other White background

#### Mixed/Multiple ethnic groups

- White and Black Caribbean
- White and Black African
- White and Asian
- Any other Mixed/Multiple ethnic background

#### Asian/Asian British

- Indian
- Pakistani
- Bangladeshi
- Chinese
- Any other Asian background

#### Black/ African/Caribbean/Black British

- African
- Caribbean
- Any other Black/African/Caribbean background

#### Other ethnic group

- Please describe your ethnic group

## Education

The next set of questions is about your qualifications.

Have you completed an apprenticeship?

- yes
- no

Do you have a qualification at degree level or above? (e.g. Bachelor's degree, Master's degree, PhD, PGCE, chartership, NVQ level 4 or 5)

- yes
- no

Do you have an NVQ or equivalent qualification? National Vocational Qualifications or 'NVQs' are competency and skills-based qualifications that can be achieved in school, college or at work.

- NVQ level 3, BTEC National, OND or ONC, City and Guilds Advanced Craft
- NVQ level 2, BTEC General, City and Guilds Craft
- NVQ level 1 or equivalent
- None of these apply

Do you have an AS, A level or equivalent qualification?

- 2 or more A levels, 4 or more AS levels
- 1 A level, 2-3 AS levels
- 1 AS level
- None of these apply

Do you have a GCSE or equivalent qualification?

5 or more GCSEs (A\*-C, 9-4), O levels (passes) or CSEs (grade 1)

Any other GCSEs, O levels or CSEs (any grades)

Basic Skills course

None of these apply

Do you have any other qualifications? *This could be equivalent qualifications achieved anywhere outside England and Wales.*

Select all that apply

Yes, in England or Wales

Yes, anywhere outside of England and Wales

None of these apply

Do you have any other qualifications?

Other (please specify in the box provided)

No qualifications

## Annual income

We would like to better understand the relationship between annual income and spending choices.

Please select the option below that best describes your current annual household income (this value can be from any source such as wages, benefits, savings, pension, trust fund, etc).

less than £20,000 per year

£20,001 to £40,000 per year

£40,001 to £60,000 per year

£60,001 to £80,000 per year

£80,001 to £120,000 per year

more than £120,000 per year

Please selection the option that best describes how sufficient your monthly financial resources are to pay for fixed expenses (e.g. rent or mortgage, utilities, food, etc.)

	Very insufficient	Insufficient	Just enough	Sufficient	Very sufficient
My monthly financial resources are:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## Living circumstances

Which of the following applies to you?

I live with at least one other person

I live alone

Do any of the following people live in your household?

Tick all that apply

child(ren) under 12 years

adult(s) over 75 years

person(s) with specific medical or special needs requirements

none of the above

## Dwelling

What is the first part of your post code? e.g. if you live in St. Albans it might be 'AL3', if you live in Chippenham it might be 'SN15'. *This part of your post code applies to a small area but cannot be used to identify you.*

What type of accommodation do you live in?

House or bungalow

Flat, maisonette or apartment (includes purpose-built flats and flats within converted buildings)

Caravan or other mobile or temporary structure

Does your household own or rent your current accommodation?

Owns outright

- Owns with a mortgage or loan
- Part-owns and part-rents (shared ownership)
- Rents (with or without housing benefit)
- Lives here rent-free

Which of the following most closely describes the area where you live?

- Major city
- City
- Town
- Village
- Hamlet or isolated dwelling

Please indicate how satisfied you are with the reliability of your local internet and mobile phone services

	Extremely dissatisfied	Somewhat dissatisfied	Somewhat satisfied	Extremely satisfied
Thinking about how reliable my internet connection is, I am	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Thinking about how reliable my mobile phone signal is, I am	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Regarding the following statements, please say how much you agree or disagree

	Strongly disagree	Somewhat disagree	Somewhat agree	Strongly agree
I identify with my local region	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am environmentally conscious.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## EV ownership

What type of household/personal vehicle do you drive?

Select all that apply.

- petrol/diesel vehicle
- fully electric vehicle
- hybrid vehicle (petrol or diesel/electric)
- dual-fuel vehicle (petrol/lpg)
- other (please describe)

What fully electric vehicle do you drive? (Please provide make and model)

Please choose the statement that best describes your situation.

- The electric vehicle that I drive is a company car.
- The electric vehicle that I drive is a privately owned car.
- Other

What hybrid vehicle do you drive? (Please provide make and model)

Do you have a heat pump in your home?

- yes
- no

Do you have solar panels on the roof of your home?

- yes
- no

## Experiment Introduction

Please read this very carefully before you continue

A scenario is a description of a situation or event that could happen in the future.

When you click 'NEXT' your task will be to read the scenario and answer one question about it. There will be 2 scenarios in total.

You are welcome to take as much or as little time as you need.

PLEASE NOTE - at certain points in this study we will ask some questions that may appear unrelated to the study. Please answer these to the best of your ability.

### Attention check 1

When a big news story breaks people often go online to get up-to-the-minute details on what is going on. We want to know which websites people trust to get this information. We also want to know if people are paying attention to the question. To show that you've read this much, please ignore the question and select ABC News and USA Today website as your two answers.

When there is a big news story, which is the one news website you would visit first? *(Please only choose one)*

BBC

Huffington Post

USA Today website

Sky News website

ABC News

None of these websites

### Energy Grid Information Introduction

When you click 'NEXT' you will be presented with some information about the electricity grid. It is vital that you read this so that you understand what to do for the scenarios.

### Energy Grid Information

## The electricity grid

At the moment electricity comes from a mix of fossil-fuel power stations, nuclear power stations and renewable sources such as wind and sun.

### In the future...

...there will be much more reliance on renewable sources of electricity. These sources (wind and sun) cannot create electricity whenever we want or need it.



### There may be power outages

If the wind does not blow or the sun does not shine there will be less available electricity. At these times the electricity grid might have a power outage meaning that households will have no electricity for cooking, heating, lighting and so on until power can be restored.



### Battery storage can provide electricity to prevent outages

There will be plans in place to prevent power outages such as making sure that electricity is stored in batteries when weather conditions are good. For example, energy can be stored in electric vehicle batteries for use in the home and can even be sold back to the grid using an app.



When you press 'NEXT' you will be given a scenario to read.

This will take a few minutes.

Your task is to read through the whole scenario **carefully**...think about it, then answer the question at the end.

Take as little or as much time as you need to give your answer.

Scenario 1a, donate energy

## Scenario 1

**Imagine that you are an electric vehicle owner.**



**In this future scenario, your car comes with a smart charger installed next to your car.**

Did you know that your smart charger allows you to do MORE than just **re-charge your electric vehicle's battery whenever you want?**



You can also **send power from your electric vehicle into your home, controlled with a smart phone app...**



....AND you can **sell or give power from your electric vehicle to others using your smart phone app.**



Now imagine that due to a major incident, there is a risk that the UK will be without electricity for up to 7 days.

**Your local hospital's back-up system has failed...** Right now they are **below critical capacity** for **essential functions** e.g. lighting for operating theatres, ventilators and other critical care equipment...



**You have enough electric charge from your electric vehicle battery to power your home for 7 days of normal usage.**

**Will you help keep the hospital running by giving power from your electric vehicle battery to the hospital for free?**



To **give power to the hospital**, you simply **plug in the two-way cable** into your smart charging socket. Power can be sent to the hospital by **pressing a button** on your app which will be clearly labelled.

You have 7 days of normal usage to power your house from your electric vehicle.

**How much** of that power do you **give** to the hospital?

Please use the drop-down list below to **select how many days' charge, if any, you give.**

Please select from the drop-down list →

Scenario 1a, sell at half the value paid

## Scenario 1

Imagine that you are an electric vehicle owner.



In this future scenario, your car comes with a smart charger installed next to your car.

Did you know that your smart charger allows you to do MORE than just **re-charge your electric vehicle's battery whenever you want?**



You can also **send power from your electric vehicle into your home, controlled with a smart phone app...**



....AND you can **sell or give power from your electric vehicle to others using your smart phone app.**



Now imagine that due to a major incident, there is a risk that the UK will be without electricity for up to 7 days.

**Your local hospital's back-up system has failed...** Right now they are **below critical capacity** for **essential functions** e.g. lighting for operating theatres, ventilators and other critical care equipment...



**You have enough electric charge from your electric vehicle battery to power your home for 7 days of normal usage.**

**Will you help keep the hospital running by selling power from your electric vehicle battery to the hospital for half of what you paid?**



To **sell power to the hospital**, you simply **plug in the two-way cable** into your smart charging socket. Power can be sent to the hospital by **pressing a button** on your app which will be clearly labelled.

You have 7 days of normal usage to power your house from your electric vehicle.

**How much** of that power do you sell to the hospital at **half of what you paid?**

Please use the drop-down list below to **select how many days' charge, if any, you sell.**

Please select from the drop-down list →

Scenario 1a, sell at the value paid

## Scenario 1

**Imagine that you are an electric vehicle owner.**



**In this future scenario, your car comes with a smart charger installed next to your car.**

Did you know that your smart charger allows you to do MORE than just **re-charge your electric vehicle's battery whenever you want?**



You can also **send power from your electric vehicle into your home, controlled with a smart phone app...**



....AND you can **sell or give power from your electric vehicle to others using your smart phone app.**



Now imagine that due to a major incident, there is a risk that the UK will be without electricity for up to 7 days.

**Your local hospital's back-up system has failed...** Right now they are **below critical capacity** for **essential functions** e.g. lighting for operating theatres, ventilators and other critical care equipment...



**You have enough electric charge from your electric vehicle battery to power your home for 7 days of normal usage.**

**Will you help keep the hospital running by selling power from your electric vehicle battery to the hospital for the same as what you paid?**



To **sell power to the hospital**, you simply **plug in the two-way cable** into your smart charging socket. Power can be sent to the hospital by **pressing a button** on your app which will be clearly labelled.

You have 7 days of normal usage to power your house from your electric vehicle.

**How much of that power do you sell to the hospital at what you paid?**

Please use the drop-down list below to **select how many days' charge, if any, you sell.**

Please select from the drop-down list →

Scenario 1a, sell at double the value paid

## Scenario 1

Imagine that you are an electric vehicle owner.



In this future scenario, your car comes with a smart charger installed next to your car.

Did you know that your smart charger allows you to do MORE than just **re-charge your electric vehicle's battery whenever you want?**



You can also **send power from your electric vehicle into your home, controlled with a smart phone app...**



....AND you can **sell or give power from your electric vehicle to others using your smart phone app.**



Now imagine that due to a major incident, there is a risk that the UK will be without electricity for up to 7 days.

**Your local hospital's back-up system has failed...** Right now they are **below critical capacity** for **essential functions** e.g. lighting for operating theatres, ventilators and other critical care equipment...



You have enough electric charge from your electric vehicle battery to power your home for 7 days of normal usage.

Will you help keep the hospital running by selling power from your electric vehicle battery to the hospital for twice what you paid?



To **sell power to the hospital**, you simply **plug in the two-way cable** into your smart charging socket. Power can be sent to the hospital by **pressing a button** on your app which will be clearly labelled.

You have 7 days of normal usage to power your house from your electric vehicle.

**How much** of that power do you sell to the hospital at **twice what you paid?**

Please use the drop-down list below to **select how many days' charge, if any, you sell.**

Please select from the drop-down list →

#### Attention check 2

Do you smoke cigarettes?

- yes
- no

#### Distractor task

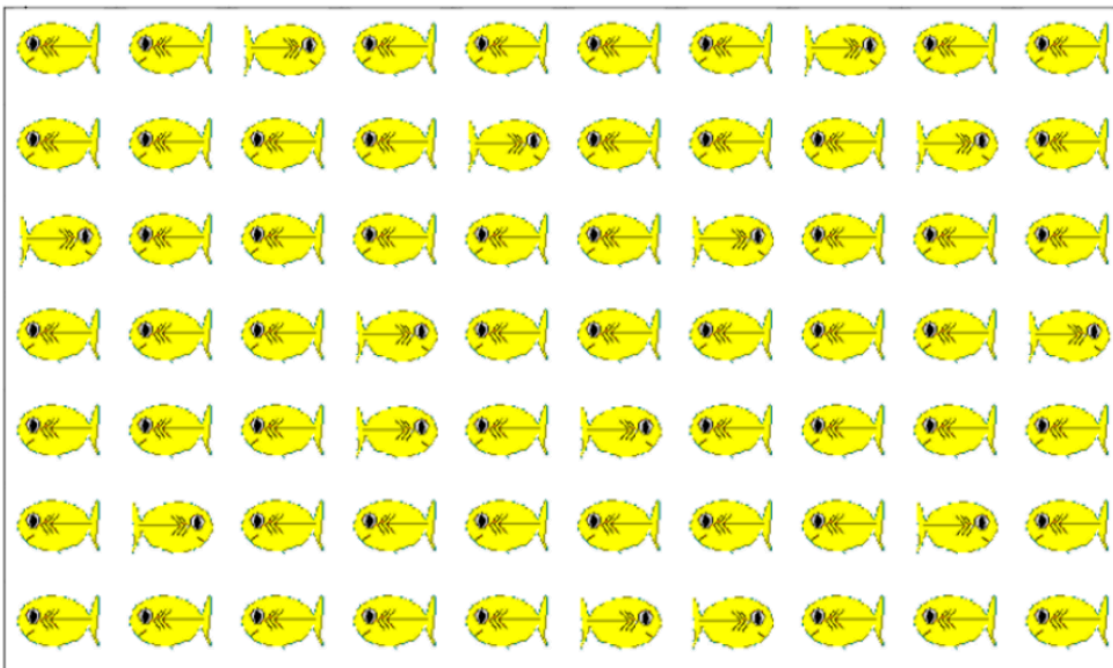
Look at the picture below.

Some fish face RIGHT ->>>

Some fish face LEFT <<<-

Please count **how many fish** are facing **RIGHT**.

**Enter the number in the box below the picture.**



How many fish are facing **RIGHT**?

## Introduction to Scenario 1b

Thank you for your answer!

You will now be presented with another scenario.

**Please read it carefully as some details have changed.**

You will answer a question at the end.

Please click 'NEXT' when you are ready to proceed.

## Scenario 1b, 1 day

### Scenario 2

**Imagine that you are an electric vehicle owner.**



**In this future scenario, your car comes with a smart charger installed next to your car.**

Did you know that your smart charger allows you to do MORE than just **re-charge your electric vehicle's battery whenever you want?**



You can also **send power from your electric vehicle into your home, controlled with a smart phone app...**



....AND you can **sell or give power from your electric vehicle to others using your smart phone app.**



Now imagine that due to a major incident, there is a risk that the UK will be without electricity for up to 7 days.

**Your local hospital's back-up system has failed...** Right now they are **below critical capacity** for **essential functions** e.g. lighting for operating theatres, ventilators and other critical care equipment...



**You have enough electric charge from your electric vehicle battery to power your home for only 1 day of normal usage.**

**Will you help keep the hospital running by selling up to one day's power from your electric vehicle battery to the hospital for what you paid?**



To **sell power to the hospital**, you simply **plug in the two-way cable** into your smart charging socket. Power can be sent to the hospital by **pressing a button** on your app which will be clearly labelled.

You have only 1 day of normal usage to power your house from your electric vehicle.

The hospital has asked you to sell them **up to one day's charge** at what you paid.

Please use the drop-down list to **select how much charge, if any, you sell.**

Please select from the drop-down list →

## Scenario 2

Imagine that you are an electric vehicle owner.



In this future scenario, your car comes with a smart charger installed next to your car.

Did you know that your smart charger allows you to do MORE than just **re-charge your electric vehicle's battery whenever you want?**



You can also **send power from your electric vehicle into your home, controlled with a smart phone app...**



....AND you can **sell or give power from your electric vehicle to others using your smart phone app.**



Now imagine that due to a major incident, there is a risk that the UK will be without electricity for up to 7 days.

**Your local hospital's back-up system has failed...** Right now they are **below critical capacity** for **essential functions** e.g. lighting for operating theatres, ventilators and other critical care equipment...



You have enough electric charge from your electric vehicle battery to power your home for only 3 days of normal usage.

Will you help keep the hospital running by **selling up to one day's power from your electric vehicle battery to the hospital for what you paid?**



To **sell power to the hospital**, you simply **plug in the two-way cable** into your smart charging socket. Power can be sent to the hospital by **pressing a button** on your app which will be clearly labelled.

You have only 3 days of normal usage to power your house from your electric vehicle.

The hospital has asked you to sell them **up to one day's charge** at what you paid.

Please use the drop-down list to **select how much charge, if any, you sell.**

Please select from the drop-down list →

Scenario 1b, 5 days

## Scenario 2

**Imagine that you are an electric vehicle owner.**



**In this future scenario, your car comes with a smart charger installed next to your car.**

Did you know that your smart charger allows you to do MORE than just **re-charge your electric vehicle's battery whenever you want?**



You can also **send power from your electric vehicle into your home, controlled with a smart phone app...**



....AND you can **sell or give power from your electric vehicle to others using your smart phone app.**



Now imagine that due to a major incident, there is a risk that the UK will be without electricity for up to 7 days.

**Your local hospital's back-up system has failed...** Right now they are **below critical capacity** for **essential functions** e.g. lighting for operating theatres, ventilators and other critical care equipment...



**You have enough electric charge from your electric vehicle battery to power your home for only 5 days of normal usage.**

**Will you help keep the hospital running by selling up to one day's power from your electric vehicle battery to the hospital for what you paid?**



To **sell power to the hospital**, you simply **plug in the two-way cable** into your smart charging socket. Power can be sent to the hospital by **pressing a button** on your app which will be clearly labelled.

You have only 5 days of normal usage to power your house from your electric vehicle.

The hospital has asked you to sell them **up to one day's charge** at what you paid.

Please use drop-down list to **select how much charge, if any, you sell.**

Please select from the drop-down list →

#### Comprehension Check

At the end of each scenario, your task as participant was to decide:

Select ALL that apply

- How much available power the hospital has.
- How many days the UK will be without power for.
- How much of my available power to provide to the hospital.
- I don't know

#### Attention check 2 confirm

How many cigarettes do you smoke per day?

- 20 or more
- 10 or more
- 5 or more
- None

#### Brief Sense of Community Scale Items

Thinking about the neighbourhood you currently live in, please answer the following questions.

	Strongly agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree
I can get what I need in this neighbourhood.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
This neighbourhood helps me fulfill my needs.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel like a member of this neighbourhood.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I belong in this neighbourhood.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I have a say about what goes on in my neighbourhood.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
People in this neighbourhood are good at influencing each another	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel connected to this neighbourhood.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I have a good bond with others in this neighbourhood.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### Civic Engagement Scale - attitudes

We'd now like to ask a few questions about taking part in public life.

For each of the following statements, please indicate how much you agree or disagree.

	Strongly disagree	Disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Agree	Strongly agree
I feel responsible for my community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I believe I should make a difference in my community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I believe that I have a responsibility to help the poor and the hungry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am committed to serve in my community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I believe that all citizens have a responsibility to their community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I believe that it is important to be informed of community issues	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I believe that it is important to volunteer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I believe that it is important to financially support charitable organizations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### Attention check 3

What number do you get when you ADD 3 + 3 + 4?

Please provide your answer as a number.

### Civic Engagement Scale - behaviours

Please indicate how much you have participated in the activities described below.

	Never	Almost never	Sometimes	About half the time	Often	Most of the time	Always
I am involved in structured volunteer position(s) in the community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
When working with others, I make positive changes in the community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I help members of my community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I stay informed of events in my community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I participate in discussions that raise issues of social responsibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I contribute to charitable organizations within the community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### Environmental-PVQ her

Here we briefly describe some people. Please read each description and think about **how much each person is or is not like you**.

It is important to her to prevent environmental pollution.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to her to protect the environment.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to her to respect nature.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to her to be in unity with nature.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to her that every person has equal opportunities.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to her to take care of those who are worse off.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to her that every person is treated justly.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to her that there is no war or conflict.

How much like you is this person?

- not like me at all
- not like me

- a little like me
- somewhat like me
- like me
- very much like me

It is important to her to be helpful to others.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to her to have fun.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to her to enjoy life's pleasures.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to her to do things she enjoys.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

### Environmental-PVQ (him)

Here we briefly describe some people. Please read each description and think about **how much each person is or is not like you**.

It is important to him to prevent environmental pollution.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to him to protect the environment.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to him to respect nature.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to him to be in unity with nature.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to him that every person has equal opportunities.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to him to take care of those who are worse off.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to him that every person is treated justly.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to him that there is no war or conflict.

How much like you is this person?

- not like me at all
- not like me

- a little like me
- somewhat like me
- like me
- very much like me

It is important to him to be helpful to others.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to him to have fun.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to him to enjoy life's pleasures.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to him to do things he enjoys.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

## Environmental-PVQ (they)

Here we briefly describe some people. Please read each description and think about **how much each person is or is not like you**.

It is important to them to prevent environmental pollution.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to them to protect the environment.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to them to respect nature.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to them to be in unity with nature.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to them that every person has equal opportunities.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to them to take care of those who are worse off.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to them that every person is treated justly.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to them that there is no war or conflict.

How much like you is this person?

- not like me at all
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- a little like me
- somewhat like me
- like me
- very much like me

It is important to them to be helpful to others.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to them to have fun.

How much like you is this person?

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- not like me
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- like me
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It is important to them to enjoy life's pleasures.

How much like you is this person?

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- a little like me
- somewhat like me
- like me
- very much like me

It is important to them to do things they enjoy.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

### Thank you and feedback

We value your feedback!

Was there anything about this study that wasn't clear? Anything you'd like to comment on?

Otherwise click 'NEXT' and your participation is complete.

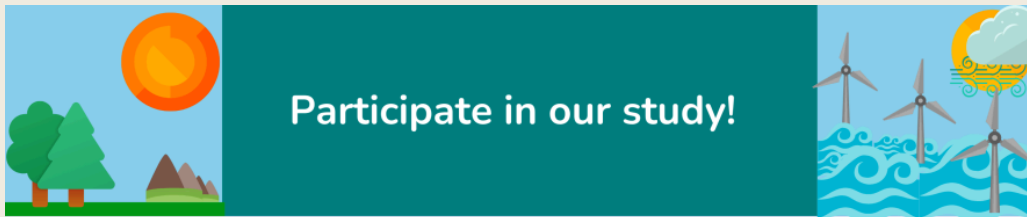
Thank you so much for your contribution to our study!

## 2. Study 2 online survey

Welcome to the study investigating the impact of a switch to renewable energy!

You are invited to read the information below. Then click 'NEXT' for further instructions.

Thank you!



### Study invitation

We would like to invite you to take part if you are 18 to 65 years old, live in England AND currently drive a car. You should also be partly or completely responsible for paying your household's energy bills.

### What is this study about?

Electric power will play a bigger role in homes in the future. This is because more electricity will be made from renewable energy sources like solar and wind. Renewables do not provide constant power – the wind does not always blow and the sun does not always shine.

There are ways to make sure that energy is always available. For example, householders can buy, sell or donate energy using a smart phone app.

We want to better understand when and why householders might buy and sell energy in the future. This is important, because householders may form an important part of ensuring that the electricity grid maintains a constant power supply to everyone who needs it.

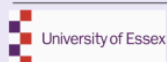


### What is involved if I decide to take part?

You should only participate if you want to; choosing not to take part will not disadvantage you in any way.

Before you decide, it is important for you to read the Participant Information Sheet carefully and discuss it with others if you wish.

After you click 'NEXT', you will be able to download the Participant Information Sheet to find out more!



University of Essex

ERAMS reference: ETH2324-0240

## Participant Information Sheet

### Investigating the impact of a switch to renewable energy

This study will take approximately 15 minutes.

You can withdraw from the study at any time by closing your browser.

Please note: Not everyone can take part in this particular study. **To be eligible you must be able to answer YES to all of the following:**

- I am 18 to 65 years old
- I currently live in England
- I drive a car
- I am wholly or partly responsible for my household's energy bills

If you answer **NO** to any of the above, please close your browser now.

Please download and read the [Participant Information Sheet](#) for full details about this study, then click 'NEXT' to proceed to the study.

## Informed Consent\_2023

### CONSENT FORM

Title of the Project: Investigating the impact of a switch to renewable energy

Researchers: Sheina Orbell, Riccardo Russo, Denise Wallace, Richard Philpot, Neive Wright

#### Statement of consent

Please read each statement carefully and click a box at the bottom of the page to continue.

1. I confirm that I am 18 years or older.
2. I agree to participate in the research project "Investigating the impact of a switch to renewable energy" being carried out by Sheina Orbell, Riccardo Russo, Denise Wallace, Richard Philpot and Neive Wright.
3. This agreement has been given voluntarily and without coercion.
4. I have been given full information about the study and contact details of the researchers.
5. I have read and understood the information provided above.
6. I agree to have my anonymised data shared on publicly accessible repositories.
7. I agree to be contacted in the future by the researchers.
8. I have had the opportunity to ask questions about the research and my participation in it.
9. I consent to having my anonymised data processed as described in the Participant Information Sheet, Ethics ID: ETH2324-0240 (Version 1).

I confirm I am 18 to 65 years, living in England and currently drive a car. I have read all of the above statements and agree to take part in this study.

- Yes I agree to take part
- No I do not agree to take part

## Are you paying attention?

**This study will require your full attention.**

**Please take a moment to make sure your phone is on silent and you won't have distractions for the next 15 min.**

**Press 'NEXT' when you are ready to start.**

## screen-out question: non-drivers are excluded from this study

Please select the option that best describes how often you drive.

- Daily
- 4 - 6 times per week
- 1 - 3 times per week
- less than once per week
- I have not driven a car in the last 2 years
- I have never driven a car

## screen-out question: non-bill payers are excluded from this study

Are you responsible (or jointly responsible) for the household energy bills?

- I am entirely responsible for the household energy bills
- I am responsible for some of the household energy bills
- I am not at all responsible for the household energy bills

## ProlificID

### What is your Prolific ID?

Please note that this response should auto-fill with the correct ID

## Age and Gender

What is your age?

(e.g. if you are 57 years old, enter the number 57 in the box)

What is your gender?

- Female
- Male
- Non-binary
- I would like to describe my gender identity using the box below:

## Ethnicity

What is your ethnic group?

Choose one option that best describes your ethnic group or background.

### White

- English / Welsh / Scottish / Northern Irish / British
- Irish
- Gypsy or Irish Traveller
- Any other White background

### Mixed/Multiple ethnic groups

- White and Black Caribbean
- White and Black African
- White and Asian
- Any other Mixed/Multiple ethnic background

### Asian/Asian British

- Indian
- Pakistani
- Bangladeshi
- Chinese
- Any other Asian background

### Black/ African/Caribbean/Black British

- African
- Caribbean
- Any other Black/African/Caribbean background

### Other ethnic group

- Please describe your ethnic group

## Education

The next set of questions is about your qualifications.

Have you completed an apprenticeship?

- yes
- no

Do you have a qualification at degree level or above? (e.g. Bachelor's degree, Master's degree, PhD, PGCE, chartership, NVQ level 4 or 5)

- yes
- no

Do you have an NVQ or equivalent qualification? National Vocational Qualifications or 'NVQs' are competency and skills-based qualifications that can be achieved in school, college or at work.

- NVQ level 3, BTEC National, OND or ONC, City and Guilds Advanced Craft
- NVQ level 2, BTEC General, City and Guilds Craft
- NVQ level 1 or equivalent
- None of these apply

Do you have an AS, A level or equivalent qualification?

2 or more A levels, 4 or more AS levels

1 A level, 2-3 AS levels

1 AS level

None of these apply

Do you have a GCSE or equivalent qualification?

5 or more GCSEs (A\*-C, 9-4), O levels (passes) or CSEs (grade 1)

Any other GCSEs, O levels or CSEs (any grades)

Basic Skills course

None of these apply

Do you have any other qualifications? *This could be equivalent qualifications achieved anywhere outside England and Wales.*

Select all that apply

Yes, in England or Wales

Yes, anywhere outside of England and Wales

None of these apply

Do you have any other qualifications?

Other (please specify in the box provided)

No qualifications

## Annual income

We would like to better understand the relationship between annual income and spending choices.

Please select the option below that best describes your current annual household income (this value can be from any source such as wages, benefits, savings, pension, trust fund, etc).

less than £20,000 per year

£20,001 to £40,000 per year

£40,001 to £60,000 per year

£60,001 to £80,000 per year

£80,001 to £120,000 per year

more than £120,000 per year

Please selection the option that best describes how sufficient your monthly financial resources are to pay for fixed expenses (e.g. rent or mortgage, utilities, food, etc.)

	Very insufficient	Insufficient	Just enough	Sufficient	Very sufficient
My monthly financial resources are:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## Living circumstances

Which of the following applies to you?

I live with at least one other person

I live alone

Do any of the following people live in your household?

Tick all that apply

child(ren) under 12 years

adult(s) over 75 years

person(s) with specific medical or special needs requirements

none of the above

## Dwelling

What is the first part of your post code? e.g. if you live in St. Albans it might be 'AL3', if you live in Chippenham it might be 'SN15'. *This part of your post code applies to a small area but cannot be used to identify you.*

What type of accommodation do you live in?

- House or bungalow
- Flat, maisonette or apartment (includes purpose-built flats and flats within converted buildings)
- Caravan or other mobile or temporary structure

Does your household own or rent your current accommodation?

- Owns outright
- Owns with a mortgage or loan
- Part-owns and part-rents (shared ownership)
- Rents (with or without housing benefit)
- Lives here rent-free

Which of the following most closely describes the area where you live?

- Major city
- City
- Town
- Village
- Hamlet or isolated dwelling

Please indicate how satisfied you are with the reliability of your local internet and mobile phone services

	Extremely dissatisfied	Somewhat dissatisfied	Somewhat satisfied	Extremely satisfied
Thinking about how reliable my internet connection is, I am	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Thinking about how reliable my mobile phone signal is, I am	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Regarding the following statements, please say how much you agree or disagree

	Strongly disagree	Somewhat disagree	Somewhat agree	Strongly agree
I identify with my local region	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am environmentally conscious.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## EV ownership

What type of household/personal vehicle do you drive?

Select all that apply.

- petrol/diesel vehicle
- fully electric vehicle
- hybrid vehicle (petrol or diesel/electric)
- dual-fuel vehicle (petrol/lpg)
- other (please describe)

What fully electric vehicle do you drive? (Please provide make and model)

Please choose the statement that best describes your situation.

- The electric vehicle that I drive is a company car.
- The electric vehicle that I drive is a privately owned car.
- Other

What hybrid vehicle do you drive? (Please provide make and model)

Do you have a heat pump in your home?

- yes
- no

Do you have solar panels on the roof of your home?

- yes
- no

### Experiment Introduction

**Please read this very carefully before you continue**

A scenario is a description of a situation or event that could happen in the future.

When you click 'NEXT' your task will be to read the scenario and answer one question about it.

You are welcome to take as much or as little time as you need.

PLEASE NOTE - at certain points in this study we will ask some questions that may appear unrelated to the study. Please answer these to the best of your ability.

### Attention check 1

When a big news story breaks people often go online to get up-to-the-minute details on what is going on. We want to know which websites people trust to get this information. We also want to know if people are paying attention to the question. To show that you've read this much, please ignore the question and select ABC News and USA Today website as your two answers.

When there is a big news story, which is the one news website you would visit first? *(Please only choose one)*

BBC

Huffington Post

USA Today website

Sky News website

ABC News

None of these websites

### Energy Grid Information Introduction

When you click 'NEXT' you will be presented with some information about the electricity grid. It is vital that you read this so that you understand what to do for the scenarios.

### Energy Grid Information

## The electricity grid

At the moment electricity comes from a mix of fossil-fuel power stations, nuclear power stations and renewable sources such as wind and sun.

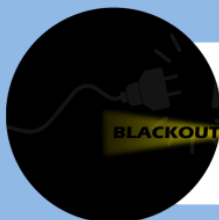
### In the future...

...there will be much more reliance on renewable sources of electricity. These sources (wind and sun) cannot create electricity whenever we want or need it.



### There may be power outages

If the wind does not blow or the sun does not shine there will be less available electricity. At these times the electricity grid might have a power outage meaning that households will have no electricity for cooking, heating, lighting and so on until power can be restored.



### Battery storage can provide electricity to prevent outages

There will be plans in place to prevent power outages such as making sure that electricity is stored in batteries when weather conditions are good. For example, energy can be stored in electric vehicle batteries for use in the home and can even be sold back to the grid using an app.



When you press 'NEXT' you will be given a scenario to read.

This will take a few minutes.

Your task is to read through the whole scenario **carefully**...think about it, then answer the question at the end.

Take as little or as much time as you need to give your answer.

Scenario 1a\_1, sell\_at\_1/10th

## Scenario 1

**Imagine that you are an electric vehicle owner.**



**In this future scenario, your car comes with a smart charger installed next to your car.**

Did you know that your smart charger allows you to do MORE than just **re-charge your electric vehicle's battery whenever you want?**



You can also **send power from your electric vehicle into your home, controlled with a smart phone app...**



....AND you can **sell or give power from your electric vehicle to others using your smart phone app.**



Now imagine that due to a major incident, there is a risk that the UK will be without electricity for up to 7 days.

**Your local hospital's back-up system has failed...** Right now they are **below critical capacity** for **essential functions** e.g. lighting for operating theatres, ventilators and other critical care equipment...



**You have enough electric charge from your electric vehicle battery to power your home for 7 days of normal usage.**

**Will you help keep the hospital running by selling power from your electric vehicle battery to the hospital for a 10th of what you paid?**



To **sell power to the hospital**, you simply **plug in the two-way cable** into your smart charging socket. Power can be sent to the hospital by **pressing a button** on your app which will be clearly labelled.

You have 7 days of normal usage to power your house from your electric vehicle.

**How much** of that power do you sell to the hospital at **one 10th of what you paid**?

Please use the drop-down list below to **select how many days' charge, if any, you sell.**

Please select from the drop-down list →

#### Comprehension Check

At the end of the scenario, your task as participant was to decide:

Select ALL that apply

- How much of my available power to provide to the hospital.
- How many days the UK will be without power for.
- How much available power the hospital has.
- I don't know

#### Brief Sense of Community Scale Items

Thinking about the neighbourhood you currently live in, please answer the following questions.

	Strongly agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree
I can get what I need in this neighbourhood.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
This neighbourhood helps me fulfill my needs.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel like a member of this neighbourhood.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I belong in this neighbourhood.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I have a say about what goes on in my neighbourhood.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
People in this neighbourhood are good at influencing each another	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Strongly agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree
I feel connected to this neighbourhood.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I have a good bond with others in this neighbourhood.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### Civic Engagement Scale - attitudes

We'd now like to ask a few questions about taking part in public life.

For each of the following statements, please indicate how much you agree or disagree.

	Strongly disagree	Disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Agree	Strongly agree
I feel responsible for my community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I believe I should make a difference in my community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I believe that I have a responsibility to help the poor and the hungry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am committed to serve in my community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I believe that all citizens have a responsibility to their community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I believe that it is important to be informed of community issues	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I believe that it is important to volunteer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I believe that it is important to financially support charitable organizations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### Attention check 3

What number do you get when you ADD 3 + 3 + 4?

Please provide your answer as a number.

### Civic Engagement Scale - behaviours

Please indicate how much you have participated in the activities described below.

	Never	Almost never	Sometimes	About half the time	Often	Most of the time	Always
I am involved in structured volunteer position(s) in the community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
When working with others, I make positive changes in the community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I help members of my community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I stay informed of events in my community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I participate in discussions that raise issues of social responsibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I contribute to charitable organizations within the community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### Environmental-PVQ her

Here we briefly describe some people. Please read each description and think about **how much each person is or is not like you**.

It is important to her to prevent environmental pollution.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to her to protect the environment.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to her to respect nature.

How much like you is this person?

- not like me at all
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- like me
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It is important to her to be in unity with nature.

How much like you is this person?

- not like me at all
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- somewhat like me
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It is important to her that every person has equal opportunities.

How much like you is this person?

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It is important to her to take care of those who are worse off.

How much like you is this person?

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It is important to her that every person is treated justly.

How much like you is this person?

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It is important to her that there is no war or conflict.

How much like you is this person?

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It is important to her to be helpful to others.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to her to have fun.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to her to enjoy life's pleasures.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to her to do things she enjoys.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

### Environmental-PVQ (him)

Here we briefly describe some people. Please read each description and think about **how much each person is or is not like you**.

It is important to him to prevent environmental pollution.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to him to protect the environment.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to him to respect nature.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to him to be in unity with nature.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to him that every person has equal opportunities.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to him to take care of those who are worse off.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to him that every person is treated justly.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to him that there is no war or conflict.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to him to be helpful to others.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to him to have fun.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to him to enjoy life's pleasures.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to him to do things he enjoys.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

### Environmental-PVQ (they)

Here we briefly describe some people. Please read each description and think about **how much each person is or is not like you**.

It is important to them to prevent environmental pollution.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to them to protect the environment.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to them to respect nature.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to them to be in unity with nature.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to them that every person has equal opportunities.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to them to take care of those who are worse off.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to them that every person is treated justly.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to them that there is no war or conflict.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to them to be helpful to others.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to them to have fun.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to them to enjoy life's pleasures.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to them to do things they enjoy.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

### Thank you and feedback

Well done and thank you so much for completing all the questionnaires!

We administered this questionnaire on a previous occasion to some participants - please let us know if you have completed this study in the past.

- yes - I completed this study a few months ago.
- no - this is the first time I've completed this study.

We value your feedback!

Was there anything about this study that wasn't clear? Anything you'd like to comment on?

Otherwise click 'NEXT' and your participation is complete.

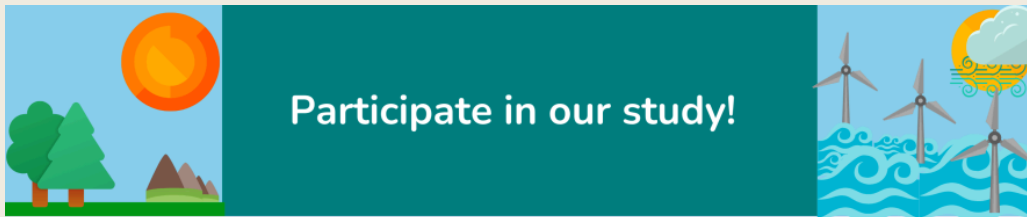
Thank you so much for your contribution to our study!

### 3. Study 3 online survey

Welcome to the study investigating the impact of a switch to renewable energy!

You are invited to read the information below. Then click 'NEXT' for further instructions.

Thank you!



### Study invitation

We would like to invite you to take part if you are 18 to 65 years old, live in England AND currently drive a car. You should also be partly or completely responsible for paying your household's energy bills.

### What is this study about?

Electric power will play a bigger role in homes in the future. This is because more electricity will be made from renewable energy sources like solar and wind. Renewables do not provide constant power – the wind does not always blow and the sun does not always shine.

There are ways to make sure that energy is always available. For example, householders can buy, sell or donate energy using a smart phone app.

We want to better understand when and why householders might buy and sell energy in the future. This is important, because householders may form an important part of ensuring that the electricity grid maintains a constant power supply to everyone who needs it.

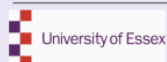


### What is involved if I decide to take part?

You should only participate if you want to; choosing not to take part will not disadvantage you in any way.

Before you decide, it is important for you to read the Participant Information Sheet carefully and discuss it with others if you wish.

After you click 'NEXT', you will be able to download the Participant Information Sheet to find out more!



ERAMS reference: ETH2324-0240

## Participant Information Sheet

### Investigating the impact of a switch to renewable energy

This study will take 10-15 minutes.

You can withdraw from the study at any time by closing your browser.

Please note: Not everyone can take part in this particular study. **To be eligible you must be able to answer YES to all of the following:**

- I am 18 to 65 years old
- I currently live in England
- I drive a car
- I am wholly or partly responsible for my household's energy bills

If you answer **NO** to any of the above, please close your browser now.

Please download and read the [Participant Information Sheet](#) for full details about this study, then click 'NEXT' to proceed to the study.

## Informed Consent\_2023

### CONSENT FORM

Title of the Project: Investigating the impact of a switch to renewable energy

Researchers: Sheina Orbell, Riccardo Russo, Denise Wallace, Richard Philpot, Neive Wright

#### Statement of consent

Please read each statement carefully and click a box at the bottom of the page to continue.

1. I confirm that I am 18 years or older.
2. I agree to participate in the research project "Investigating the impact of a switch to renewable energy" being carried out by Sheina Orbell, Riccardo Russo, Denise Wallace, Richard Philpot and Neive Wright.
3. This agreement has been given voluntarily and without coercion.
4. I have been given full information about the study and contact details of the researchers.
5. I have read and understood the information provided above.
6. I agree to have my anonymised data shared on publicly accessible repositories.
7. I agree to be contacted in the future by the researchers.
8. I have had the opportunity to ask questions about the research and my participation in it.
9. I consent to having my anonymised data processed as described in the Participant Information Sheet, Ethics ID: ETH2324-0240 (Version 1).

I confirm I am 18 to 65 years, living in England and currently drive a car. I have read all of the above statements and agree to take part in this study.

- Yes I agree to take part
- No I do not agree to take part

## Are you paying attention?

**This study will require your full attention.**

**Please take a moment to make sure your phone is on silent and you won't have distractions for the next 10-15 min.**

**Press 'NEXT' when you are ready to start.**

## screen-out question: non-drivers are excluded from this study

Please select the option that best describes how often you drive.

- Daily
- 4 - 6 times per week
- 1 - 3 times per week
- less than once per week
- I have not driven a car in the last 2 years
- I have never driven a car

## screen-out question: non-bill payers are excluded from this study

Are you responsible (or jointly responsible) for the household energy bills?

- I am entirely responsible for the household energy bills
- I am responsible for some of the household energy bills
- I am not at all responsible for the household energy bills

## ProlificID

### What is your Prolific ID?

Please note that this response should auto-fill with the correct ID

## Age and Gender

What is your age?

(e.g. if you are 57 years old, enter the number 57 in the box)

What is your gender?

- Female
- Male
- Non-binary
- I would like to describe my gender identity using the box below:

## Ethnicity

What is your ethnic group?

Choose one option that best describes your ethnic group or background.

### White

- English / Welsh / Scottish / Northern Irish / British
- Irish
- Gypsy or Irish Traveller
- Any other White background

### Mixed/Multiple ethnic groups

- White and Black Caribbean
- White and Black African
- White and Asian
- Any other Mixed/Multiple ethnic background

### Asian/Asian British

- Indian
- Pakistani
- Bangladeshi
- Chinese
- Any other Asian background

### Black/ African/Caribbean/Black British

- African
- Caribbean
- Any other Black/African/Caribbean background

### Other ethnic group

- Please describe your ethnic group

## Education

The next set of questions is about your qualifications.

Have you completed an apprenticeship?

- yes
- no

Do you have a qualification at degree level or above? (e.g. Bachelor's degree, Master's degree, PhD, PGCE, chartership, NVQ level 4 or 5)

- yes
- no

Do you have an NVQ or equivalent qualification? National Vocational Qualifications or 'NVQs' are competency and skills-based qualifications that can be achieved in school, college or at work.

- NVQ level 3, BTEC National, OND or ONC, City and Guilds Advanced Craft
- NVQ level 2, BTEC General, City and Guilds Craft
- NVQ level 1 or equivalent
- None of these apply

Do you have an AS, A level or equivalent qualification?

2 or more A levels, 4 or more AS levels

1 A level, 2-3 AS levels

1 AS level

None of these apply

Do you have a GCSE or equivalent qualification?

5 or more GCSEs (A\*-C, 9-4), O levels (passes) or CSEs (grade 1)

Any other GCSEs, O levels or CSEs (any grades)

Basic Skills course

None of these apply

Do you have any other qualifications? *This could be equivalent qualifications achieved anywhere outside England and Wales.*

Select all that apply

Yes, in England or Wales

Yes, anywhere outside of England and Wales

None of these apply

Do you have any other qualifications?

Other (please specify in the box provided)

No qualifications

## Annual income

We would like to better understand the relationship between annual income and spending choices.

Please select the option below that best describes your current annual household income (this value can be from any source such as wages, benefits, savings, pension, trust fund, etc).

less than £20,000 per year

£20,001 to £40,000 per year

£40,001 to £60,000 per year

£60,001 to £80,000 per year

£80,001 to £120,000 per year

more than £120,000 per year

Please selection the option that best describes how sufficient your monthly financial resources are to pay for fixed expenses (e.g. rent or mortgage, utilities, food, etc.)

	Very insufficient	Insufficient	Just enough	Sufficient	Very sufficient
My monthly financial resources are:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## Living circumstances

Which of the following applies to you?

I live with at least one other person

I live alone

Do any of the following people live in your household?

Tick all that apply

child(ren) under 12 years

adult(s) over 75 years

person(s) with specific medical or special needs requirements

none of the above

## Dwelling

What type of accommodation do you live in?

House or bungalow

Flat, maisonette or apartment (includes purpose-built flats and flats within converted buildings)

Caravan or other mobile or temporary structure

**Does your household own or rent your current accommodation?**

- Owns outright
- Owns with a mortgage or loan
- Part-owns and part-rents (shared ownership)
- Rents (with or without housing benefit)
- Lives here rent-free

**Which of the following most closely describes the area where you live?**

- Major city
- City
- Town
- Village
- Hamlet or isolated dwelling

**Please indicate how satisfied you are with the reliability of your local internet and mobile phone services**

	Extremely dissatisfied	Somewhat dissatisfied	Somewhat satisfied	Extremely satisfied
Thinking about how reliable my internet connection is, I am	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Thinking about how reliable my mobile phone signal is, I am	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Regarding the following statements, please say how much you agree or disagree**

	Strongly disagree	Somewhat disagree	Somewhat agree	Strongly agree
I identify with my local region	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am environmentally conscious.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**EV ownership**

**What type of household/personal vehicle do you drive?**

Select all that apply.

- petrol/diesel vehicle
- fully electric vehicle
- hybrid vehicle (petrol or diesel/electric)
- dual-fuel vehicle (petrol/lpg)
- other (please describe)

**Please choose the statement that best describes your situation.**

- The electric vehicle that I drive is a company car.
- The electric vehicle that I drive is a privately owned car.
- Other

**Do you have a heat pump in your home?**

- yes
- no

**Do you have solar panels on the roof of your home?**

- yes
- no

**Experiment Introduction**

**Please read this very carefully before you continue**

A scenario is a description of a situation or event that could happen in the future.

When you click 'NEXT' your task will be to read the scenario and answer one question about it.

You are welcome to take as much or as little time as you need.

PLEASE NOTE - at certain points in this study we will ask some questions that may appear unrelated to the study. Please answer these to the best of your

### Attention check 1

When a big news story breaks people often go online to get up-to-the-minute details on what is going on. We want to know which websites people trust to get this information. We also want to know if people are paying attention to the question. To show that you've read this much, please ignore the question and select ABC News and USA Today website as your two answers.

When there is a big news story, which is the one news website you would visit first? *(Please only choose one)*

BBC

Huffington Post

USA Today website

Sky News website

ABC News

None of these websites

### Energy Grid Information Introduction

When you click 'NEXT' you will be presented with some information about the electricity grid. It is vital that you read this so that you understand what to do for the scenarios.

### Energy Grid Information

**The electricity grid**  
At the moment electricity comes from a mix of fossil-fuel power stations, nuclear power stations and renewable sources such as wind and sun.

**In the future...**  
...there will be much more reliance on renewable sources of electricity. These sources (wind and sun) cannot create electricity whenever we want or need it.

**There may be power outages**  
If the wind does not blow or the sun does not shine there will be less available electricity. At these times the electricity grid might have a power outage meaning that households will have no electricity for cooking, heating, lighting and so on until power can be restored.

**Battery storage can provide electricity to prevent outages**  
There will be plans in place to prevent power outages such as making sure that electricity is stored in batteries when weather conditions are good. For example, energy can be stored in electric vehicle batteries for use in the home and can even be sold back to the grid using an app.

**BLACKOUT**

The infographic features a blue background with white and orange text boxes. It includes three circular icons: a globe with a lightning bolt and the word 'BLACKOUT', a landscape with a wind turbine and sun, and a green car with a battery symbol.

When you press 'NEXT' you will be given a scenario to read.

This will take a few minutes.

Your task is to read through the whole scenario **carefully**...think about it, then answer the question at the end.

Take as little or as much time as you need to give your answer.

Scenario1a\_0\_sell\_for\_free

## Scenario 1

**Imagine that you are an electric vehicle owner.**



**In this future scenario, your car comes with a smart charger installed next to your car.**

Did you know that your smart charger allows you to do MORE than just **re-charge your electric vehicle's battery whenever you want?**



You can also **send power from your electric vehicle into your home, controlled with a smart phone app...**



....AND you can **sell or give power from your electric vehicle to others using your smart phone app.**



Now imagine that due to a major incident, there is a risk that the UK will be without electricity for up to 7 days.

**Your local hospital's back-up system has failed...** Right now they are **below critical capacity** for **essential functions** e.g. lighting for operating theatres, ventilators and other critical care equipment...



**You have enough electric charge from your electric vehicle battery to power your home for 7 days of normal usage.**

**Will you help keep the hospital running by selling power from your electric vehicle battery to the hospital for free?**



To **sell power to the hospital**, you simply **plug in the two-way cable** into your smart charging socket. Power can be sent to the hospital by **pressing a button** on your app which will be clearly labelled.

You have 7 days of normal usage to power your house from your electric vehicle.

**How much** of that power do you **sell** to the hospital?

Please use the drop-down list below to **select how many days' charge, if any, you sell.**

Please select from the drop-down list →

## Scenario 1

Imagine that you are an electric vehicle owner.



In this future scenario, your car comes with a smart charger installed next to your car.

Did you know that your smart charger allows you to do MORE than just **re-charge your electric vehicle's battery whenever you want?**



You can also **send power from your electric vehicle into your home, controlled with a smart phone app...**



....AND you can **sell or give power from your electric vehicle to others using your smart phone app.**



Now imagine that due to a major incident, there is a risk that the UK will be without electricity for up to 7 days.

**Your local hospital's back-up system has failed...** Right now they are **below critical capacity** for **essential functions** e.g. lighting for operating theatres, ventilators and other critical care equipment...



**You have enough electric charge from your electric vehicle battery to power your home for 7 days of normal usage.**

**Will you help keep the hospital running by selling power from your electric vehicle battery to the hospital for a 10th of what you paid?**



To **sell power to the hospital**, you simply **plug in the two-way cable** into your smart charging socket. Power can be sent to the hospital by **pressing a button** on your app which will be clearly labelled.

You have 7 days of normal usage to power your house from your electric vehicle.

**How much** of that power do you **sell** to the hospital at a **10th of what you paid?**

Please use the drop-down list below to **select how many days' charge, if any, you sell.**

Please select from the drop-down list →

Scenario 1a\_4, sell\_at\_twice what was paid

## Scenario 1

**Imagine that you are an electric vehicle owner.**



**In this future scenario, your car comes with a smart charger installed next to your car.**

Did you know that your smart charger allows you to do MORE than just **re-charge your electric vehicle's battery whenever you want?**



You can also **send power from your electric vehicle into your home, controlled with a smart phone app...**



....AND you can **sell or give power from your electric vehicle to others using your smart phone app.**



Now imagine that due to a major incident, there is a risk that the UK will be without electricity for up to 7 days.

**Your local hospital's back-up system has failed...** Right now they are **below critical capacity** for **essential functions** e.g. lighting for operating theatres, ventilators and other critical care equipment...



**You have enough electric charge from your electric vehicle battery to power your home for 7 days of normal usage.**

**Will you help keep the hospital running by selling power from your electric vehicle battery to the hospital for twice what you paid?**



To **sell power to the hospital**, you simply **plug in the two-way cable** into your smart charging socket. Power can be sent to the hospital by **pressing a button** on your app which will be clearly labelled.

You have 7 days of normal usage to power your house from your electric vehicle.

**How much** of that power do you **sell** to the hospital at **twice what you paid**?

Please use the drop-down list below to **select how many days' charge, if any, you sell.**

Please select from the drop-down list →

## Scenario 1

Imagine that you are an electric vehicle owner.



In this future scenario, your car comes with a smart charger installed next to your car.

Did you know that your smart charger allows you to do MORE than just **re-charge your electric vehicle's battery whenever you want?**



You can also **send power from your electric vehicle into your home, controlled with a smart phone app...**



....AND you can **sell or give power from your electric vehicle to others using your smart phone app.**



Now imagine that due to a major incident, there is a risk that the UK will be without electricity for up to 7 days.

**Your local hospital's back-up system has failed...** Right now they are **below critical capacity** for **essential functions** e.g. lighting for operating theatres, ventilators and other critical care equipment...



You have enough electric charge from your electric vehicle battery to power your home for 7 days of normal usage.

Will you help keep the hospital running by giving power from your electric vehicle battery to the hospital for free?



To **give power to the hospital**, you simply **plug in the two-way cable** into your smart charging socket. Power can be sent to the hospital by **pressing a button** on your app which will be clearly labelled.

You have 7 days of normal usage to power your house from your electric vehicle.

**How much** of that power do you **give** to the hospital?

Please use the drop-down list below to **select how many days' charge, if any, you give.**

Please select from the drop-down list →

Scenario 1a\_1, GIVE\_at\_1/10th paid

## Scenario 1

**Imagine that you are an electric vehicle owner.**



**In this future scenario, your car comes with a smart charger installed next to your car.**

Did you know that your smart charger allows you to do MORE than just **re-charge your electric vehicle's battery whenever you want?**



You can also **send power from your electric vehicle into your home, controlled with a smart phone app...**



....AND you can **sell or give power from your electric vehicle to others using your smart phone app.**



Now imagine that due to a major incident, there is a risk that the UK will be without electricity for up to 7 days.

**Your local hospital's back-up system has failed...** Right now they are **below critical capacity** for **essential functions** e.g. lighting for operating theatres, ventilators and other critical care equipment...



**You have enough electric charge from your electric vehicle battery to power your home for 7 days of normal usage.**

**Will you help keep the hospital running by giving power from your electric vehicle battery to the hospital for a 10th of what you paid?**



To **give power to the hospital**, you simply **plug in the two-way cable** into your smart charging socket. Power can be sent to the hospital by **pressing a button** on your app which will be clearly labelled.

You have 7 days of normal usage to power your house from your electric vehicle.

**How much** of that power do you **give** to the hospital at a **10th of what you paid**?

Please use the drop-down list below to **select how many days' charge, if any, you give.**

Please select from the drop-down list →

## Scenario 1

Imagine that you are an electric vehicle owner.



In this future scenario, your car comes with a smart charger installed next to your car.

Did you know that your smart charger allows you to do MORE than just **re-charge your electric vehicle's battery whenever you want?**



You can also **send power from your electric vehicle into your home, controlled with a smart phone app...**



....AND you can **sell or give power from your electric vehicle to others using your smart phone app.**



Now imagine that due to a major incident, there is a risk that the UK will be without electricity for up to 7 days.

**Your local hospital's back-up system has failed...** Right now they are **below critical capacity** for **essential functions** e.g. lighting for operating theatres, ventilators and other critical care equipment...



**You have enough electric charge from your electric vehicle battery to power your home for 7 days of normal usage.**

**Will you help keep the hospital running by giving power from your electric vehicle battery to the hospital for twice what you paid?**



To **give power to the hospital**, you simply **plug in the two-way cable** into your smart charging socket. Power can be sent to the hospital by **pressing a button** on your app which will be clearly labelled.

You have 7 days of normal usage to power your house from your electric vehicle.

**How much** of that power do you **give** to the hospital at **twice what you paid**?

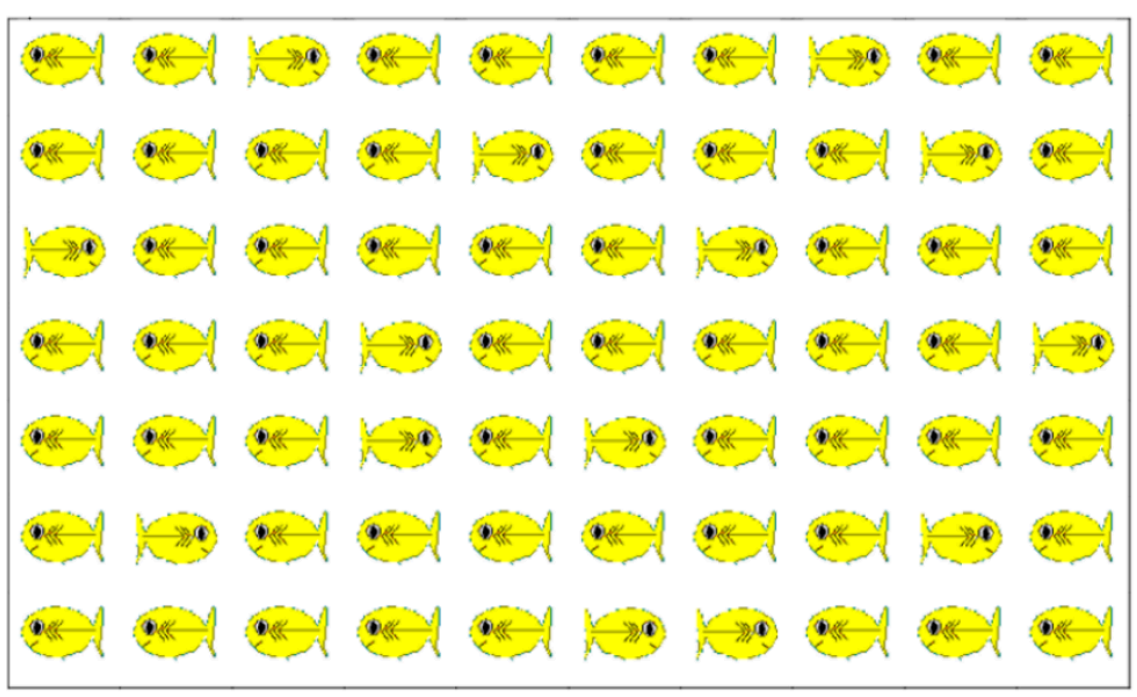
Please use the drop-down list below to **select how many days' charge, if any, you give.**

Please select from the drop-down list →

**Distractor Task**

Look at the picture below.  
Some fish face RIGHT ->>>  
Some fish face LEFT <<<-

Please count **how many fish** are facing **RIGHT**.  
**Enter the number in the box below the picture.**



How many fish are facing **RIGHT**?  
Please enter a number in the box.

Thank you for your answer!

You will now be presented with another scenario.

**Please read it carefully as some details have changed.**

You will answer a question at the end.

Please click 'NEXT' when you are ready to proceed.

Scenario1b\_1\_GIVE, 1 day available

## Scenario 2

**Imagine that you are an electric vehicle owner.**



**In this future scenario, your car comes with a smart charger installed next to your car.**

Did you know that your smart charger allows you to do MORE than just **re-charge your electric vehicle's battery whenever you want?**



You can also **send power from your electric vehicle into your home, controlled with a smart phone app...**



....AND you can **sell or give power from your electric vehicle to others using your smart phone app.**



Now imagine that due to a major incident, there is a risk that the UK will be without electricity for up to 7 days.

**Your local hospital's back-up system has failed...** Right now they are **below critical capacity** for **essential functions** e.g. lighting for operating theatres, ventilators and other critical care equipment...



**You have enough electric charge from your electric vehicle battery to power your home for only 1 day of normal usage.**

**Will you help keep the hospital running by giving up to one day's power from your electric vehicle battery to the hospital for what you paid?**



To **give power to the hospital**, you simply **plug in the two-way cable** into your smart charging socket. Power can be sent to the hospital by **pressing a button** on your app which will be clearly labelled.

You have only 1 day of normal usage to power your house from your electric vehicle.

The hospital has asked you to give them **up to one day's charge** at what you paid.

Please use the drop-down list to **select how much charge, if any, you give.**

Please select from the drop-down list →

## Scenario 2

Imagine that you are an electric vehicle owner.



In this future scenario, your car comes with a smart charger installed next to your car.

Did you know that your smart charger allows you to do MORE than just **re-charge your electric vehicle's battery whenever you want?**



You can also **send power from your electric vehicle into your home, controlled with a smart phone app...**



....AND you can **sell or give power from your electric vehicle to others using your smart phone app.**



Now imagine that due to a major incident, there is a risk that the UK will be without electricity for up to 7 days.

**Your local hospital's back-up system has failed...** Right now they are **below critical capacity** for **essential functions** e.g. lighting for operating theatres, ventilators and other critical care equipment...



**You have enough electric charge from your electric vehicle battery to power your home for only 3 days of normal usage.**

**Will you help keep the hospital running by giving up to one day's power from your electric vehicle battery to the hospital for what you paid?**



To **give power to the hospital**, you simply **plug in the two-way cable** into your smart charging socket. Power can be sent to the hospital by **pressing a button** on your app which will be clearly labelled.

You have only 3 days of normal usage to power your house from your electric vehicle.

The hospital has asked you to give them **up to one day's charge** at what you paid.

Please use the drop-down list to **select how much charge, if any, you give.**

Please select from the drop-down list →

Scenario1b\_3\_GIVE, 5 days available

## Scenario 2

**Imagine that you are an electric vehicle owner.**



**In this future scenario, your car comes with a smart charger installed next to your car.**

Did you know that your smart charger allows you to do MORE than just **re-charge your electric vehicle's battery whenever you want?**



You can also **send power from your electric vehicle into your home, controlled with a smart phone app...**



....AND you can **sell or give power from your electric vehicle to others using your smart phone app.**



Now imagine that due to a major incident, there is a risk that the UK will be without electricity for up to 7 days.

**Your local hospital's back-up system has failed...** Right now they are **below critical capacity** for **essential functions** e.g. lighting for operating theatres, ventilators and other critical care equipment...



**You have enough electric charge from your electric vehicle battery to power your home for only 5 days of normal usage.**

**Will you help keep the hospital running by giving up to one day's power from your electric vehicle battery to the hospital for what you paid?**



To **give power to the hospital**, you simply **plug in the two-way cable** into your smart charging socket. Power can be sent to the hospital by **pressing a button** on your app which will be clearly labelled.

You have only 5 days of normal usage to power your house from your electric vehicle.

The hospital has asked you to give them **up to one day's charge** at what you paid.

Please use drop-down list to **select how much charge, if any, you give.**

Please select from the drop-down list →

### Comprehension Check

At the end of the scenario, your task as participant was to decide:

Select ALL that apply

- How much available power the hospital has.
- How many days the UK will be without power for.
- How much of my available power to provide to the hospital.
- I don't know

### Attention check 3

What number do you get when you ADD  $3 + 3 + 4$ ?

Please provide your answer as a number.

Here we briefly describe some people. Please read each description and think about **how much each person is or is not like you**.

It is important to her to prevent environmental pollution.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to her to protect the environment.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to her to respect nature.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to her to be in unity with nature.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to her that every person has equal opportunities.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to her to take care of those who are worse off.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to her that every person is treated justly.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to her that there is no war or conflict.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to her to be helpful to others.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to her to have fun.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to her to enjoy life's pleasures.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to her to do things she enjoys.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

Here we briefly describe some people. Please read each description and think about **how much each person is or is not like you**.

It is important to him to prevent environmental pollution.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to him to protect the environment.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to him to respect nature.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to him to be in unity with nature.

How much like you is this person?

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- like me
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It is important to him that every person has equal opportunities.

How much like you is this person?

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It is important to him to do things he enjoys.

How much like you is this person?

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- very much like me

Here we briefly describe some people. Please read each description and think about **how much each person is or is not like you**.

It is important to them to prevent environmental pollution.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to them to protect the environment.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to them to respect nature.

How much like you is this person?

- not like me at all
- not like me
- a little like me
- somewhat like me
- like me
- very much like me

It is important to them to be in unity with nature.

How much like you is this person?

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- like me
- very much like me

It is important to them that every person has equal opportunities.

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How much like you is this person?

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- somewhat like me
- like me
- very much like me

Well done and thank you so much for completing the questionnaire!

We administered this study on a previous occasion to some participants - please let us know if you have completed this study in the past.

- yes - I completed this study a few months ago.
- no - this is the first time I've completed this study.

We value your feedback!

Was there anything about this study that wasn't clear? Anything you'd like to comment on?

Otherwise click 'NEXT' and you're all done.

Thank you again for your contribution to our research!