Valuing the electricity demand of households in the north west of England: Block 2

Welcome to this survey about the value of continuous electricity supply in your home

The electricity supply in the United Kingdom is generally very reliable and available continuously. However, the power stations that generate electricity, and towers and pylons that deliver electricity to our homes, are often close to the coast or to rivers that may be affected by future sea level rise and subsequent flooding. This survey will ask about the use of electricity in your daily routine and the value that your household places on the availability of 24 hour electricity. The purpose of this survey is to help inform policymakers when to invest in anti-flooding measures for the electricity network.

This study, part of a major research project, is based within Department of Geography and Planning at the University of Liverpool.

All data collected as part of this survey will be stored in anonymised form.

If you have any queries or concerns, please feel free to contact our survey team at

arcoes@liverpool.ac.uk and we will try to help. If you remain unhappy or have a complaint about which you feel you cannot come to us, then you should contact the Research Governance Officer at ethics@liv.ac.uk. When contacting the Research Governance Officer, please provide details of the name or description of the study (so that it can be identified) and the details of the complaint you wish to make.
Thank you for reading this.

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Your electricity usage
This survey has three parts. Part 1 asks about how you use electricity in your home. Part 2 asks you to make choices from a series of electricity supply scenarios that are presented to you. In Part 3, please tell us a little bit about you and your household.
Thank you for participating in our survey.
Part 1 asks about the use of electricity in your household
* 1. Do you generate any of your own electricity? This includes solar (photovoltaic panels), wind and microhydro power

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If yes, approximately what proportion (%) of your total electricity needs are met by generate?	the electricity you	
* 3. How do you heat your home? Please select the main heating source and any add	litional heating source used f	o heat your home.
Mainly use	Additional heating source	e
Heat source •		\$
Other (please specify)		
* 4. Which type(s) of fuel do you use in the preparation of hot meals?		
Electricity only: electric oven and hob		
Gas only: gas oven and hob		
Both electricity and gas: for example, electric oven and gas hob		
Solid fuel: Aga or similar stove not dependent on electricity		
Other (please specify)		

Experience of power cuts A power cut is a temporary interruption to the electricity supply. Power cuts range from local power cuts, affecting just a few properties on a street, to the failure of electric power for a much larger area. Please include any type of power cut in your answers. 5. How frequently, over the last ten years, you have experienced a power cut. • 6. Have you experienced a power cut in the last 12 months? •
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7. If yes, please estimate the number of power cuts in the last 12 months

Valuing the electricity demand of households in the north west of England: Block 2 Reliance upon electricity during the winter

0. If a power cut continued for 8 hours in winter (October to March), which of the following would you find iffficult to manage? (Select all that apply) It would not be difficult to manage Personal cleanliness No television / computer / internet Keeping warm / lack of heating in the home Lack of lighting in the home Dealing with medical condition Not able to have hot meals Not able to recharge portable devices (mobile phone etc.) Where (please specify) 1. How well do you think your household could manage without electricity for 24 hours in winter?	uring winter daytime or evening.	hat use electricity and your household's requirements
Personal cleanliness No television / computer / internet Looking after children or elderly people Lack of lighting in the home Dealing with medical condition Not able to have hot meals Not able to recharge portable devices (mobile phone etc.) Other (please specify) 1. How well do you think your household could manage without electricity for 24 hours in winter?		er (October to March), which of the following would you find
Keeping warm / lack of heating in the home Looking after children or elderly people Dealing with medical condition Not able to have hot meals Not able to recharge portable devices (mobile phone etc.) Other (please specify) 1. How well do you think your household could manage without electricity for 24 hours in winter?	It would not be difficult to manage	Loss of perishable food / freezer defrosting
Lack of lighting in the home Dealing with medical condition Not able to have hot meals Not able to recharge portable devices (mobile phone etc.) Other (please specify) 1. How well do you think your household could manage without electricity for 24 hours in winter?	Personal cleanliness	No television / computer / internet
Not able to have hot meals Not able to recharge portable devices (mobile phone etc.) Other (please specify) 1. How well do you think your household could manage without electricity for 24 hours in winter?	Keeping warm / lack of heating in the home	Looking after children or elderly people
1. How well do you think your household could manage without electricity for 24 hours in winter?	Lack of lighting in the home	Dealing with medical condition
How well do you think your household could manage without electricity for 24 hours in winter?	Not able to have hot meals	Not able to recharge portable devices (mobile phone etc.)
	ther (please specify)	
	4. Hannard da nan Abiah nan bana bahalah anda	d annual and with each also being the fore QA become in coints and
		n manage without electricity for 24 nours in winter?
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Electricity supply scenarios

This is Part 2 of the survey.

Imagine that there is a power cut affecting your whole neighbourhood.

For the next eight questions you will be presented with a choice between two alternative power cut situations and an associated one-off price to pay to avoid the power cut. Each alternative includes:

the duration of the cut, e.g. 1 hr

the time of day as either 'peak', e.g. early evening when most people are typically at home, or 'off-peak'

the time of week as either 'weekday' or 'weekend / Bank Holiday'

the season as either 'winter' or 'not winter'

the one-off amount you would pay to avoid the power cut

Imagine that by paying the one-off price shown, you could avoid the power cut and have an uninterrupted supply. These are hypothetical situations and, taking into account your household's electricity needs, please select the one you most want to avoid, based on the differences between them and the price you pay.

There is an example of a power cut scenario below.

Example of power cut scenario

	option1	option2
Duration	20 minutes	4 hours
Time of day	Peak	Peak
Day of week	Weekday	Weekend / Bank Holiday
Season	Winter	Not winter
To avoid, amount to pay	£1	£25

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	Option 1	Option 2
Season	Winter	Summer
Duration	1 hour	4 hours
Day of the Week	Weekday	Weekend
Time of Day	Off-Peak	Peak
Payment once off	£5	£10

ayment, once off	£5	£10	
. If these were the only two options av	ailable to you, which power c	ut would you prefer to avoid?	Please
lect either option 1 or option 2			
option 1			
option 2			

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Choice Experiment Scenario 2

	Option 1	Option 2
Season	Summer	Winter
Duration	20 mins	8 hours
Day of the Week	Weekday	Weekend
Time of Day	Off-Peak	Peak
Payment, once off	£5	£10

ayment once on	20	210	
3. If these were the only two options as	vailable to you, which powe	r cut would you prefer to avo	oid? Pleas
elect either option 1 or option 2			
option 1			
option 2			

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Power cut scenario 3

Choice Experiment Scenario 3

	Option 1	Option 2
Season	Summer	Winter
Duration	20 mins	8 hours
Day of the Week	Weekday	Weekend
Time of Day	Peak	Off-Peak
Payment once off	£25	£1

Payment, once off	£25	£1	
14. If these were the only two options av select either option 1 or option 2	railable to you, which pow	er cut would you prefer to a	void? Plea
option 1			
option 2			

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	Option 1	Option 2
Season	Winter	Summer
Duration	4 hours	1 hour
Day of the Week	Weekend	Weekday
Time of Day	Peak	Off-Peak
Payment, once off	£1	£25

Payment, once off	±1	£25	
5. If these were the only two options ava	ailable to you, which powe	r cut would you prefer to avoid? I	Plea
elect either option 1 or option 2			
option 1			
option 2			

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	Option 1	Option 2
Season	Summer	Winter
Duration	8 hours	20 mins
Day of the Week	Weekday	Weekend
Time of Day	Peak	Off-Peak
Payment, once off	£1	£25

Payment, once on	EI	£25	
6. If these were the only two options	available to you, which powe	er cut would you prefer to avo	id? Pleas
select either option 1 or option 2			
option 1			
option 2			

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	Option 1	Option 2
Season	Summer	Winter
Duration	4 hours	1 hour
Day of the Week	Weekend	Weekday
Time of Day	Peak	Off-Peak
Payment, once off	£25	£1

Payment, once off	£25	£1	
If these were the only two options av	ailable to you, which power	cut would you prefer to av	oid? Pleas
elect either option 1 or option 2			
option 1			
option 2			

	Option 1	Option 2
Season	Winter	Summer
Duration	20 mins	8 hours
Day of the Week	Weekend	Weekday
Time of Day	Off-Peak	Peak
Payment, once off	£10	£5

Payment, once off	£10	£5	
. If these were the only two options a	vailable to you, which power	cut would you prefer to a	avoid? Pleas
elect either option 1 or option 2			
option 1			
option 2			

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	Option 1	Option 2
Season	Winter	Summer
Duration	1 hour	4 hours
Day of the Week	Weekend	Weekday
Time of Day	Peak	Off-Peak
Payment, once off	£10	£5

Payment, once off	±10	±5
19. If these were the only two options a select either option 1 or option 2	vailable to you, which powe	r cut would you prefer to avoid? Plea
option 1		
option 2		

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The importance of different factors to your household	
There were five factors in each scenario: Duration of power cut Peak or Off-peak Weekday or Weekend / Bank Holiday Winter or Not winter Amount to pay to avoid the power cut	
20. Did you consider all five factors in each option?	
21. If you did not consider each factor, which factor was most important to you?	

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You and your household
This is Part 3 of our survey
22. Please select the option that best describes your working status
\Delta
23. Please state head of household's occupation or, if retired, previous occupation
24. Please select your age group
•
25. Gender
\$
26. Annual household income
•

Valuing the electricity demand of households in the north west of England: Block 2 About your home and daily routine * 27. Number of people in your household **\$** * 28. Number of children aged under 5 in household * 29. How many people, including children and babies, are usually at home in the daytime during a normal working week (Monday to Friday)? None 1 person 2 people 3 people 4 or more people * 30. Does anyone in the household need electricity for medical equipment / heating due to a disability / long term illness? **\$** * 31. Which of the following best describe where you live? Select one only () City Suburbs Large town Small town Village Hamlet / small village or isolated dwelling in open countryside * 32. Have you ever lived in a hamlet / small village or in an isolated dwelling? **\$** * 33. Type of dwelling you currently live in **\$**

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Thank you	
Thank you for completing our survey.	