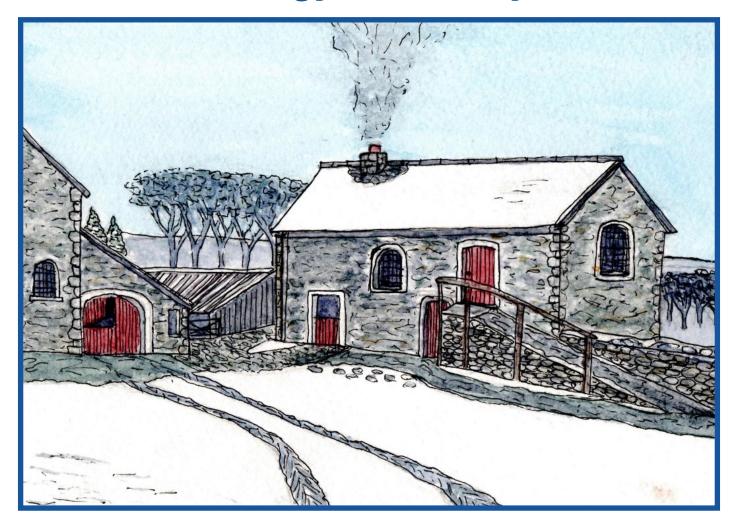
Energy Use Diary



Part One: Winter/Spring





Energy Use Diary Winter



Hello!

Thank you for agreeing to fill out this energy diary! It will really help us to understand how people use energy in heritage buildings. We would like you to fill this diary out twice a day (morning and evening) for five days. We will then ask you to fill out a very similar diary later in the year so that we can compare the results of energy use in winter/heating season and in the summer/non heating season.

If possible we'd like you to fill the diary in from Thursday to Monday, or Friday to Tuesday. This is so it covers a couple of weekdays and a weekend because people often do different things at weekends compared to weekdays. If you're really keen you can do a whole week but five days is fine!

As part of the diary we will, if you agree, provide you with two digital thermometers. We will ask you to place one of these outside your building and one in your main living space and then ask you to check them once per day and note down their recordings.

This diary is designed to be filled in by one person for the household but every household member could fill one in if they wanted to, just have a word with the researcher who visits you. It would be great if you can fill in this dairy during a fairly 'normal' week for you, so not when you are going away for seven days or if you have guests to stay (unless that is an every-week occurrence for you of course!).

We hope that its fairly self explanatory but we would encourage you to have a look through the diary now so that you can ask the researcher that visits you any questions on elements you might not be clear on. We will now ask for some initial information from you before you start the diary.

Initial information

At the start of the diary there are a couple details that we will ask you to fill in now so that you don't have to enter them each day.

What is your name?				
Could you tell us roughly how old everyone in your household is? To the nearest decade is fine, EG two under tens, one 30-40 year old, one 40-50 year old.				
Are you filling this in for your whole household or just for yourself?				
For my household For myself				
If you have central heating can you tell us: When and how long it is on for each day? (Eg: twice a day 6am-8am and 5pm-9pm)				

What temperature the main thermostat is set to?				
If you have radiator controls (or other form of temperature zoning) could you tell us what the radiators in the main living space, the kitchen and the bedrooms in use are set to?				
Main living space:	Kitchen:	Bedroom 1:		
Bedroom 2:	Bedroom 3:	Bedroom 4:		
If you don't have central heating but have some other form of heating system that is used to a regular pattern could you briefly describe it? If you your only heating system is used intermittently then we'll just ask you to mention its use each on each day that you make recordings.				
Eg, wood burning stove in living room, used for a couple of hours each evening.				
Could you tell us approximately how many openable windows your property has? If you have a conservatory please provide a separate number for this.				
At the start of the diary period couproviding a separate number for a	•	of these windows are again		
Completely closed?	Open a crack?	?		
Open a bit?	Wide open?			
Could you tell us if you have any form of mechanical ventilation and if so what it is and which room it's in?				
Eg, 1 Extractor fan in kitchen, 1 i	in each of the two bathro	oms.		

Thank you very much for this initial information! As part of the diary we will just ask you to note if any of these things change rather than getting you to repeat it in great detail!

When you are ready please turn over and start your energy diary!



Approxima	tely what time	did you get up?		
	_	uld you tell us what a oplicable and briefly o	the weather is like today? F lescribe.	Please circle a
Windy	Fa windy and	cloudy today but dry :	and not too cold	Stormy
Rainy				Cold
Sunny				Mild
Snowy				Humid
Frosty				Hot
•	check your ins the time you ch	ide and outside there	mometer?	
For the out Curent tem	tside thermome perature:	e ter:	For the inside thermome Current temperature:	ter:
Maximum t	aximum temperature:			
Minimum temperature: Minimum temperature: Minimum temperature:				
1 1000 10001	. 20110.		Press reset! Done!	
How many	people were ir	n the house over this	period? If it varied go with h	ighest numbe
-	e any auxiliary g, otherwise lea	_	ן? If yes please briefly describ	pe what and
Eg. Put the	e log burner on	for a few hours		
	oen or close an herwise leave b	=	y extractor fans? If so pleas	se briefly
Eg. Opene	ed kitchen windo	ow a bit while cooking	then closed half an hour late	r.

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What were you doing and where did you do it? We just want a general idea of what you did and roughly when and where. It doesn't need to be accurate to the minute! There is some information about the different sections below.

Activities: Just a rough guide is great although it is helpful to distinguish some activities such as cooked or cold meals which use different amounts of energy. Here are some examples we thought up but they are by no means exclusive.

Had a shower Put on dishwasher Read books
Had a bath (how long?) Put on washing machine.
Had a cooked meal Vacuumed Used computer
Had a cold meal Went out Did DIY (power-tools Y/N)

u ,

Location: What part of the house were you in? Living room, bedroom, kitchen, study etc and a rough percentage of how long for.

Clothing: It is really helpful to know what level of clothing you had on at different times. We've defined the levels of clothing as below. It would also be helpful to know if you are wearing any slipper or shoes and if you're using any other 'personal insulation' such as lap rug, throws etc.

Light clothing (ie shirtsleeves/t-shirt)

Medium Clothing (ie shirt and jumper)

Heavy
body-v

Heavy clothing (ie shirt, jumper and body-warmer/coat)

Morning -11am

What activities did you do?	Eg: got up at 7am, had a cooked breakfast Read books for 2 hours then went out 10am-3pm
What rooms were you in and for roughly how long?	Bedroom 10%, Kitchen 20%, Living room 70%
What level of clothing were you wearing?	Medium clothing, plus slippers.
What did others do and where?	Person 2, worked in office all morning, 8am-11am. Person 3 got up, had cold breakfast, went to school 9am

Day one! Midday/afternoon (11.00am-4.00pm) If everyone is out please tick, then skip this section and go straight to the evening. How many people were in the house over this period? If it varied go with highest number Did you use any auxiliary heating this afternoon? Did you open or close any windows or use any extractor fans this afternoon? Midday/Afternoon 11am -4pm What activities did you do? What rooms were you in and for roughly how long? What level of clothing were you wearing? What did others do and where?

Day One!!

Evening (4.00pm-bedtime)

How many people were in the house over this period? If it varied go with the highest number

Did you use any auxiliary heating this evening?			
Did you open	or close any windows or use any extractor fans this evening?	•	
Evening 4pm	-Bedtime		
What activities did you do?			
What rooms were you in and for roughly how long?			
What level of clothing were you wearing?			
What did others do and where?			

otherwise leave blank.	ting settings today? If yes please briefly describe		
Eg, heating on for an extra two h	nours this morning 9am-11am because it was a bit cold!		
If you spent the evening at home could you hazard a guess at how many lights were on for any length of time? So not just five minutes for the bathroom light.			
1-2	11-15		
3-5	16-20		
6-10	More		
Roughly what time did you go to bed?			
	ght have used a significant amount of energy over		
Anything else that you think might the day?			
Anything else that you think might the day?	ght have used a significant amount of energy over		
Anything else that you think might the day?	ght have used a significant amount of energy over		
Anything else that you think might the day?	ght have used a significant amount of energy over		
Anything else that you think might the day?	ght have used a significant amount of energy over		
Anything else that you think might the day?	ght have used a significant amount of energy over		

If you have any questions or challenges with the diary please contact: freya.wise@open.ac.uk

Thank you for filling in day one of your energy diary! (only four days to go!)



Day two! Please add the date: Morning: (When you get up till 11am)		
Approximately what time did you get up?		
Good Morning! Please could you tell us what t many of the below as are applicable and briefly de	_	
Windy	Stormy	
Rainy	Cold	
Sunny	Mild	
Snowy	Humid	
Frosty	Hot	

Could you check your inside and outside them?	nometer?	
For the outside thermometer: Curent temperature:	For the inside thermometer: Current temperature:	
Maximum temperature:	Maximum temperature:	
Minimum temperature:	Minimum temperature:	
Press reset! Done!	Press reset! Done!	
How many people were in the house over this	period? If it varied go with highest number	
Did you use any auxiliary heating this morning for how long, otherwise leave blank.	? If yes please briefly describe what and	
Did you open or close any windows or use any describe otherwise leave blank	y extractor fans? If so please briefly	

Morning -11a	m	
What activities did you do?		
What rooms were you in and for roughly how long?		
What level of clothing were you wearing?		
What did others do and where?		
	noon (11.00am-4.00pm) out please tick, then skip this section and go straight to the evening.	
How many pe	eople were in the house over this period? If it varied go with highest	
Did you use a	nny auxiliary heating this afternoon?	
Did you open	or close any windows or use any extractor fans this afternoon?	

Midday/After	noon 11am -4pm
What activities did you do?	
What rooms were you in and for roughly how long?	
What level of clothing were you wearing?	
What did others do and where?	
Day two! Evening (4.00) How many pe number	om-bedtime) ople were in the house over this period? If it varied go with the highest
Did you use a	ny auxiliary heating this evening?
Did you open	or close any windows or use any extractor fans this evening?

Evening 4pm	-Bedtime		
What activities did you do?			
What rooms were you in and for roughly how long?			
What level of clothing were you wearing?			
What did others do and where?			
Any changes otherwise leav	to the central heating setting setting to blank.	ngs today? <i>If ye</i>	es please briefly describe
	the evening at home could yngth of time? So not just five		less at how many lights were bathroom light.
1-2		11-15	
3-5		16-20	
6-10	П	More	

the day?				
Eg: Computer, Radio/TV, Baking, Electric blanket, Nightlight, Security lights etc.				

If you have any questions or challenges with the diary please contact: freya.wise@open.ac.uk

Thank you for filling in day two of your energy diary! (only three days to go!)



Day three! Please add the date: Morning: (When you get up till 11am)		
Approximately what time did you get up?		
Good Morning! Please could you tell us what t many of the below as are applicable and briefly de	_	
Windy	Stormy	
Rainy	Cold	
Sunny	Mild	
Snowy	Humid	
Frosty	Hot	
火		
Could you check your inside and outside them?	nometer?	
For the outside thermometer: Curent temperature:	For the inside thermometer: Current temperature:	
Maximum temperature:	Maximum temperature:	
Minimum temperature:	Minimum temperature:	
Press reset! Done!	Press reset! Done!	
How many people were in the house over this	period? If it varied go with highest number	
Did you use any auxiliary heating this morning for how long, otherwise leave blank.	? If yes please briefly describe what and	
Did you open or close any windows or use any describe otherwise leave blank	extractor fans? If so please briefly	

Morning -11a	m	
What activities did you do?		
What rooms were you in and for roughly how long?		
What level of clothing were you wearing?		
What did others do and where?		
	noon (11.00am-4.00pm) out please tick, then skip this section and go straight to the evening.	
How many pe	eople were in the house over this period? If it varied go with highest	
Did you use a	nny auxiliary heating this afternoon?	
Did you open	or close any windows or use any extractor fans this afternoon?	

Midday/After	noon 11am -4pm	
What activities did you do?		
What rooms were you in and for roughly how long?		
What level of clothing were you wearing?		
What did others do and where?		
Day three! Evening (4.00pm-bedtime) How many people were in the house over this period? If it varied go with the highest number		
Did you use a	ny auxiliary heating this evening?	
Did you open	or close any windows or use any extractor fans this evening?	

Evening 4pm	-Bedtime		
What activities did you do?			
What rooms were you in and for roughly how long?			
What level of clothing were you wearing?			
What did others do and where?			
Any changes otherwise leav	to the central heating setting setting to blank.	ngs today? <i>If ye</i>	es please briefly describe
If you spent the evening at home could you hazard a guess at how many lights were on for any length of time? So not just five minutes for the bathroom light.			
1-2		11-15	
3-5		16-20	
6-10	П	More	

the day?
Eg: Computer, Radio/TV, Baking, Electric blanket, Nightlight, Security lights etc.

If you have any questions or challenges with the diary please contact: freya.wise@open.ac.uk

Thank you for filling in day three of your energy diary! (only two days to go, you're over halfway!)



Day four! Please add the date: Morning: (When you get up till 11am)	
Approximately what time did you get up?	
Good Morning! Please could you tell us what many of the below as are applicable and briefly	_
Windy	Stormy
Rainy	Cold
Sunny	Mild
Snowy	Humid
Frosty	Hot

Could you check your inside and outside the Please note the time you checked them?	rmometer?
For the outside thermometer: Curent temperature:	For the inside thermometer: Current temperature:
Maximum temperature:	Maximum temperature:
Minimum temperature:	Minimum temperature:
Press reset! Done!	Press reset! Done!
How many people were in the house over thi	s period? If it varied go with highest number
Did you use any auxiliary heating this morning for how long, otherwise leave blank.	ng? If yes please briefly describe what and
Did you open or close any windows or use a describe otherwise leave blank	ny extractor fans? If so please briefly

Morning -11a	m	
What activities did you do?		
What rooms were you in and for roughly how long?		
What level of clothing were you wearing?		
What did others do and where?		
	noon (11.00am-4.00pm) out please tick, then skip this section and go straight to the evening.	
How many pe	eople were in the house over this period? If it varied go with highest	
Did you use a	nny auxiliary heating this afternoon?	
Did you open	or close any windows or use any extractor fans this afternoon?	

Midday/After	noon 11am -4pm
What activities did you do?	
What rooms were you in and for roughly how long?	
What level of clothing were you wearing?	
What did others do and where?	
Day four! Evening (4.00) How many pe number	om-bedtime) ople were in the house over this period? If it varied go with the highest
Did you use a	ny auxiliary heating this evening?
Did you open	or close any windows or use any extractor fans this evening?

Evening 4pm	-Bedtime		
What activities did you do?			
What rooms were you in and for roughly how long?			
What level of clothing were you wearing?			
What did others do and where?			
Any changes otherwise leav	to the central heating setting setting to blank.	ngs today? <i>If ye</i>	es please briefly describe
If you spent the evening at home could you hazard a guess at how many lights were on for any length of time? So not just five minutes for the bathroom light.			
1-2		11-15	
3-5		16-20	
6-10	П	More	

the day?
Eg: Computer, Radio/TV, Baking, Electric blanket, Nightlight, Security lights etc.

If you have any questions or challenges with the diary please contact: freya.wise@open.ac.uk

Thank you for filling in day four of your energy diary! (only one day left, nearly there!)



Day five! Please add the date: Morning: (When you get up till 11am)	
Approximately what time did you get up?	
Good Morning! Please could you tell us what many of the below as are applicable and briefly of	
Windy	Stormy
Rainy	Cold
Sunny	Mild
Snowy	Humid
Frosty	Hot

Could you check your inside and outside there Please note the time you checked them?	mometer?
For the outside thermometer: Curent temperature:	For the inside thermometer: Current temperature:
Maximum temperature:	Maximum temperature:
Minimum temperature:	Minimum temperature:
Press reset! Done!	Press reset! Done!
How many people were in the house over this	s period? If it varied go with highest number
Did you use any auxiliary heating this morning for how long, otherwise leave blank.	g? If yes please briefly describe what and
Did you open or close any windows or use ar describe otherwise leave blank	ny extractor fans? If so please briefly

Morning -11a	m	
What activities did you do?		
What rooms were you in and for roughly how long?		
What level of clothing were you wearing?		
What did others do and where?		
	noon (11.00am-4.00pm) out please tick, then skip this section and go straight to the evening.	
How many pe	eople were in the house over this period? If it varied go with highest	
Did you use a	nny auxiliary heating this afternoon?	
Did you open	or close any windows or use any extractor fans this afternoon?	

Midday/After	noon 11am -4pm
What activities did you do?	
What rooms were you in and for roughly how long?	
What level of clothing were you wearing?	
What did others do and where?	
Day five! Evening (4.00) How many pe number	om-bedtime) ople were in the house over this period? If it varied go with the highest
Did you use a	ny auxiliary heating this evening?
Did you open	or close any windows or use any extractor fans this evening?

Evening 4pm -Bedtime					
What activities did you do?					
What rooms were you in and for roughly how long?					
What level of clothing were you wearing?					
What did others do and where?					
Any changes to the central heating settings today? If yes please briefly describe otherwise leave blank.					
If you spent the evening at home could you hazard a guess at how many lights were on for any length of time? So not just five minutes for the bathroom light.					
1-2		11-15			
3-5		16-20			
6-10	П	More			

the day.
Eg: Computer, Radio/TV, Baking, Electric blanket, Nightlight, Security lights etc.

If you have any questions or challenges with the diary please contact: freya.wise@open.ac.uk

Thank you for filling in the final day of your energy diary!

Well done, you made it all the way to the end!

Thank you very much for your help with this research! Your efforts and answers will be really useful!

If you have any other comments on the experience of filling in the energy diary, other things would like to have mentioned but didn't have space for, or any other comments that you'd like to share with us please pop them down here.

Thank you again for your time and efforts in filling in this diary! One of the research team will be in contact to arrange a time to collect the diary and thermometers from you so we can start to analyse the data.

Any other comments:		

Notes:	
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Notes:	
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This diary is a piece of research for the project: Reducing carbon emissions from Cumbrian residential heritage buildings while retaining their heritage values.

