



Household Energy End-use Project 2 Householder Survey

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Interview admin

Interviewer	
Household reference number	
Date	
Time start	
Time end	
Interview notes	

Introduction

The aim of this interview is to find out a bit more about how you use energy in your home. This information will help us understand the data being collected by the energy monitoring equipment and sensors.

You don't have to answer all the questions and may stop the interview at any time. (You can respond with "Don't know" or "Prefer not to say" to any question).

All information collected as part of this study will be treated as confidential, held securely by Statistics New Zealand and BRANZ, and only be used for statistical or research purposes.

We do not identify individuals in published statistics or research.

The interview should take about 45-60 minutes.

Do you have any questions?

Are you happy to proceed?





Occupancy

1.	Looking at Show Card 1, for about how many years have you lived at
	your current (this) address?
	☐ Less than 1 year
	☐ 1 year or more but less than 3 years
	☐ 3 years or more but less than 5 years
	☐ 5 years or more but less than 10 years
	□ 10 years or more
	□ Don't know
	□ Refused
2.	Looking at Show Card 2, Generally speaking, during winter, at which times of day is someone usually at home [think about all members of the household, whether someone works from home etc] 2.1. On weekdays?
	☐ All or most of the time (ONE CODE ONLY)
	□ 6am to 9am
	□ 9am to 12pm
	□ lunchtime (12pm to 2pm)
	□ afternoons (2pm to 5pm)
	□ evenings (5pm onwards)
	☐ Highly variable (ONE CODE ONLY)
	□ DK
	□ Refused
	2.2. On weekends? ☐ All or most of the time (ONE CODE ONLY)
	☐ 6am to 9am
	□ 9am to 12pm
	□ lunchtime (12pm to 2pm)
	□ afternoons (2pm to 5pm)
	□ evenings (5pm onwards)
	☐ Highly variable (ONE CODE ONLY)
	□ DK
	□ Refused





Appliance use

1.1 Heating main living area

Interviewer intro text: The next few questions are about how often, when and how you heat different rooms of the home in winter, starting with the main living area (if there is more than one living area, the main living area is deemed the largest):

_	
3.	In which month do you usually start heating and stop heating <u>your</u> <u>main living area</u> [If not lived in this home for a winter, ask generally]
	☐ Start heating:[month]
	☐ Stop heating:[month]
	☐ Heat all year round
	☐ Never heat main living area
	□ Don't know
	□ Refused
4	Mara shout hosting main living area.
4.	More about heating main living area:4.1. Show Card 3: How often do you usually heat your main living
	area in winter? [select only one]
	□ Every day
	☐ Most days
	☐ Some days
	☐ Hardly ever
	□ Never [interviewer to select Never for next two parts to this question]
	□ DK
	□ Refused
	4.2. Show Card 4: At what times of the day do you usually heat your main living area in winter? [select all that apply]
	□ Mornings
	□ Afternoons
	□ Evenings
	□ Overnight
	□ Never
	□ DK
	□ Refused



4.3.



Looking at Show Card 5, What appliances do you use to heat

	your main living area? [select all the	nat a	pply]
	☐ Heat pump		Ducted heat pump
	☐ Fixed electric heater		Central heating – gas
	☐ Electric night-store		Central heating – electric
	☐ Enclosed Wood burner		Central heating – pellet burner
	□ Pellet burner		Underfloor heating – electric
	☐ Open fire		Underfloor heating - gas
	□ Coal burner		Other
	☐ Fixed gas - flued		NA never heated
	☐ Fixed gas — unflued		DK
	☐ Portable electric		Refused
	☐ Portable gas heater		
5.	Can you apply a temperature setting to	ο νοι	ır main living area (e.g. with
	a thermostat for heat pump or central	_	
	☐ Yes		
	□ No		
	□ N/A no heating/ do not heat		
	□ DK		
	□ Refused		
	5.1. If yes: What temperature do	you ı	usually set your main living
	area at in degrees Celsius?		
	[numeric] oC		
	□ DK □ Refused		
	Li Reiuseu		
6.	Do you use a timer to control when yo	ur he	eating comes on and goes
-	off, or turn it on/off manually? [For ex		
	controller, storage heater timers, cent	ral h	eating programmer etc]
	□ Yes		
	□ No		
	□ No timer control		
	□ N/A no heating/ do not heat		
	□ DK		
	□ Refused		





1.2 Heating other rooms (excluding bedrooms)

7.	 Excluding bedrooms for now, are any other rooms or areas (e.g. kitchen, hallways, bathrooms etc) in the house usually heated at some time in winter? Yes No N/A - studio DK Refused 					
8.	[If yes to Q7:] R heating [exc bed below; refer to f	dro	oms which are a	sked sep	parately] (g and method of enter data in table
[r	oom name refer to property et up]		1 How often ow Card 3	8.2 Time Show Car	es of day rd 4	8.3 Appliance(s) Show Card 5
8.1	. Show Card 3: Ho	W	8.2. Show Card 4	l: At	8.3. What	appliances are
	often is it usually	/	what times	of day is	used t	o heat? [Show
	heated? [select		it usually he	ated?	Card 5	i, select multiple]
	one]		[select all th			,
	-		apply]			
1	Every day		1. Mornings		1. Heat pu	ımp
2.			2. Afternoons			lectric heater
	3. Some days		3. Evenings		3. Electric	night-store
	4. Hardly ever		4. Overnight			ed Wood burner
5. DK 5. DK			5. Pellet b	urner		
6.	6. Refused		6. Refused		6. Open fire	
					7. Coal bu	-
					8. Fixed g	
					_	as – unflued
					10. Portabl	
						e gas heater heat pump
						heating – gas
						heating – electric





8.1. Show Card 3: How often is it usually heated? [select one]	8.2. Show Card 4: At what times of day is it usually heated? [select all that apply]	8.3. What appliances are used to heat? [Show Card 5, select multiple]
		 15. Central heating – pellet burner 16. Underfloor heating – electric 17. Underfloor heating - gas 18. Other 19. NA never heated [auto-filled if Never to Q4] 20. DK 21. Refused

1.3 Heating bedrooms

- 9. Now thinking about how often, when and how bedrooms are heated in winter, starting with the bedroom you usually sleep in:
 - 9.1. Which bedroom of the house do you usually sleep in? This is just to help us match up the information from this survey with the information recorded in the building audit. [Note to interviewer: record bedroom number as per the floor plan?]

	as per the hoor plan
	Bedroom number: [number]
	Don't know
	Refused
9.2	2. Show Card 3: How often do you usually heat your bedroom in
	winter?
	Every day
	Most days
	Some days
	Hardly ever
	Never
	DK
	Refused





9.3. Show Card 4: At what times bedroom in winter?	of the day do you usually heat your
☐ Mornings	
□ Afternoons	
□ Evenings	
□ Overnight	
□ Never	
□ DK	
□ Refused	
9.4. Looking at Show Card 5, Whyour bedroom?	nat appliances do you use to heat
☐ Heat pump	☐ Ducted heat pump
☐ Fixed electric heater	☐ Central heating — gas
☐ Electric night-store	☐ Central heating — electric
☐ Enclosed Wood burner	☐ Central heating – pellet burner
☐ Pellet burner	☐ Underfloor heating — electric
☐ Open fire	☐ Underfloor heating - gas
☐ Coal burner	□ Other
☐ Fixed gas - flued	□ NA never heated
☐ Fixed gas — unflued	□ DK
☐ Portable electric	□ Refused
☐ Portable gas heater	
	your) bedroom? (how many adults, ow many children aged 5 or under)
Adults: [number]	
Child(ren) (6-17): [number]	
Child(ren) under 6: [number]	
□ Unoccupied □ DK □ Refused	





10. Now thinking about heating in the other bedrooms in the house...

10.1. Show Card 3: How often is it usually heated?	10.2. Show Card 4: At what times of day is it usually heated?	10.3. What appliances are used to heat? [Show Card 5]	10.4. Who usually sleeps in this bedroom?
 Every day Most days Some days Hardly ever Never DK Refused 	 Mornings Afternoons Evenings Overnight Never DK Refused 	 Heat pump Fixed electric heater Electric night-store Enclosed Wood burner Pellet burner Open fire Coal burner Fixed gas - flued Fixed gas - unflued Portable electric Portable gas heater Ducted heat pump Central heating - gas Central heating - pellet burner Underfloor heating - electric Underfloor heating - gas Other NA never heated DK Refused 	A. Adults B. Child(ren) (6-17) C. Child(ren) under 6 97. Unoccupied 98. DK 99. Refused

Enter data here:

Bedroom no. [Refer to property set up]	10.1 How often Show Card 3	10.2 Times of day Show Card 4	10.3 Appliances Show Card 5	10.4 Occupants





11.	Looking at Show Card 6, do you use or do any of these things to help
	ep warm in your home in Winter? [select as many as apply]
Ц	Electric/heated blanket(s)
	Hot water bottle(s)
	Extra blanket(s) / winter duvet
	Extra layers (clothes, slippers)
	Close curtains
	Use draft stoppers
	Bubble wrap/insulation on windows
	Have a hot shower/bath
	Go to bed earlier
	Sleep in one room
	Which room? [enter room(s) names]
	Close off/don't use some rooms
	Which room(s)? [enter room(s) names]
	Other:
	None
	DK
	Refused





1.4 Cooling

INTRO TEXT FOR INTERVIEWER: This section of the survey asks about things you might do to help keep cool and the home a comfortable temperature in summer.

12.	Show Card 3: In summer, now often do you use a neat pump / air
	nditioner for cooling in the living area? [select one]
	Every day
	Most days
	Some days
	Hardly ever
	Never
	N/A - no heat pump/air con unit
	DK
	Refused
13. co	Show Card 3: In summer, how often do you use a heat pump / air nditioner for cooling in the bedroom(s)? [select one]
	Every day
	Most days
	Some days
	Hardly ever
	Never
	N/A - no heat pump/air con unit
	DK
	Refused
14.	Show Card 3: In summer, how often do you use a heat pump / air
CO	nditioner for cooling any other rooms or parts of the house? [select one]
	Every day
	Most days
	Some days
	Hardly ever
	Never
	N/A - no heat pump/air con unit
	DK
	Refused





Show Card 8: do you regularly do any of these things to help keep your home cool in summer? Leave windows open all day Leave windows open all night Open windows and doors to create a cross-breeze Close curtains/blinds Use awning/louvres

☐ Use heat pump/air conditioner on fan setting (not cooling)☐ Other _____

☐ Use electric fans (include ceiling fans)

D None of the above

□ None of the above

 \square DK

□ Refused





1.5 Ventilation (managing moisture)

INTRO TEXT FOR INTERVIEWER: This section of the survey asks about things you might do to help ventilate the home to manage moisture.

16.	Show Card 7: In the last seven days, during or after showering or
ba	thing, how often did you open windows to let moist air out of the
ba	throom? [[select one]
	every time
	most times
	sometimes
	hardly ever
	never
	DK
	RF
17.	Show Card 7: In the last seven days, during or after showering or
ba	thing, how often did you use mechanical extract ventilation? [select one]
	every time
	most times
	sometimes
	hardly ever
	never
	no mechanical extract ventilation
	DK
	RF
18.	Show Card 7: In the last seven days, during or after cooking, how often
	d you open windows to let moist air out of the kitchen? [select one]
	every time
_	most times
	sometimes
	hardly ever
	never
	Not cooked any hot meals in last 7 days
	DK
	RF
19	Show Card 7: In the last seven days, during or after cooking, how often
	d you use mechanical extract ventilation? [select one]
	every time





23.	In which room(s) of the house do you usually use the dehumidifier? [name rooms]
	Refused
	DK
	never
	hardly ever
	some days
	most days
	every day
22. th	[If yes to Q21:] Show Card 3: In winter, how often do you usually use e dehumidifier? [select one]
	RF
	DK
	No
	Yes
21.	Do you have a dehumidifier?
	RF
	DK
	never
	hardly ever
	some days
	most days
-	every day
be	Show Card 3: In the last seven days, how often did you air out your edroom? [By air out, we mean open windows wide for at least 10-15 minutes] elect one]
20.	Show Card 3: In the last seven days, how often did you air out your
	RF
	DK
	Not cooked any hot meals in last 7 days
	no mechanical extract ventilation
	never
	hardly ever
	sometimes
	most times





1.6 Water heating and hot water use

Interviewer intro text: I'm now going to ask you about how you use hot water in your home. To help us understand how and when hot water is used, the survey asks about how often showers and baths are used.

We will work through this together thinking, about how often each person in the household used the shower or bath in the last week, and at what times of day. This information will then be used to work out a total number of showers and baths for the household, which is what will be recorded in the survey.

24. Refer to Handout if needed: In the last 7 days, how often was the **SHOWER** used in this household: in the morning and in the evening? Please think about everyone in your household and use of all showers.

24.1. in the morning?

24.1. In the morning?			
In the morning (a.m):	[numeric] □ N/A no shower □ DK □ Refused		
In the evening (p.m):	[numeric]		
	□ N/A no shower		
	□ DK		
	□ Refused		

24.2. in the afternoon/evening?

In the morning	
(a.m):	[numeric]
(4)	□ N/A no shower
	□ DK
	□ Refused
In the evening	
(p.m):	[numeric]
\(\frac{1}{2}\)	□ N/A no shower
	□ DK
	□ Refused





25. Refer to Handout if needed: In the last 7 days, how often was the **BATH** used in the morning and in the evening? Please think about everyone in your household and use of all baths.

25.1. in the morning (a.m)

In the morning			
(a.m):	[numeric]		
(00000)	□ N/A no bath		
	□ DK		
	□ Refused		
In the evening			
(p.m):	[numeric]		
\(\frac{1}{2}\)	□ N/A no bath		
	□ DK		
	□ Refused		

25.2. in the afternoon/evening (p.m).

25.2. III tile alte	in the arternoon/evening (p.in).		
In the morning (a.m):	[numeric] □ N/A no bath □ DK □ Refused		
In the evening (p.m):	[numeric] □ N/A no bath □ DK □ Refused		





1.7 Laundry

Interviewer intro text: This section of the survey asks about how you wash and dry clothes in your home.

26.	1	Looking at Show Card 9, In a typical week, how many loads of washing
		e done in this household? [select one. Only count washing done within the
		me – don't count laundry loads done at laundrette/other]
		None (e.g. washing done offsite e.g., laundromat/ professional service, other person's house)
		Less than one load per week
		1 load
		2 loads
		3 - 4 loads
		5 - 6 loads
		7 loads
		More than 7 loads
		N/A no washing machine
		Don't know
		Refused
27.		Show Card 10: What setting do you usually set your washing machine to?
	-	elect one]
		Hot wash
		Warm wash
		Cold wash
		N/A no washing machine
		N/A no washing done in household
		Don't know
	Ц	Refused
28.		Show Card 11: At what time(s) of day is washing usually done in this
	no □	usehold? [select as many as apply] Mornings
		Afternoons
		Evenings
		Overnight
		Whenever it's needed
		N/A no washing machine
	П	Don't know
	_	Refused





29.	Do you have an automatic clothes drier (a tumble drier)? [Select one]
	Yes
	No
	DK
	Refused
	[Skip logic: If yes to clothes drier (Qo)]: Is the drier vented to the outside? elect one] Yes No Condensing drier DK Refused
	[Skip logic: If yes to clothes drier (Qo)]: .1. Show Card 12: How often do you use the clothes dryer to dry your washing in summer ? [Select one]
П	Always
	Often
	Sometimes
	Hardly ever
	Never
	DK
	Refused
31	2. Show Card 12: How often do you use the clothes dryer to dry your
	washing in winter? [Select one]
	Always
	Often
	Sometimes
	Hardly ever
	Never
	DK
	Refused





32. Drying clothes <u>outside</u>:

winter? [Select one] Always Often Sometimes Hardly ever Never DK Refused 32.2. Show Card 12: How often do you dry your washing outside in summer? [Select one] Always Often Sometimes Hardly ever Never DK Refused 33. Drying clothes inside: 33.1. Show Card 12: How often do you dry your washing inside the home in winter? [e.g. on a clothes airer, next to heaters. Select one] Always Often Sometimes Hardly ever Never DK Refused 33.1. Show Card 12: How often do you dry your washing inside the home in winter? [e.g. on a clothes airer. Select one] Always Often Sometimes Hardly ever Never DK Refused 33.2. Show Card 12: How often do you dry your washing inside the home in summer? [e.g. on a clothes airer. Select one] Always Often Sometimes Hardly ever	32	2.1. Show Card 12: How often do you dry your washing outside in
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□ DK □ Refused 32.2. Show Card 12: How often do you dry your washing outside in summer? [Select one] □ Always □ Often □ Sometimes □ Hardly ever □ Never □ DK □ Refused 33. Drying clothes inside: 33.1. Show Card 12: How often do you dry your washing inside the home in winter? [e.g. on a clothes airer, next to heaters. Select one] □ Always □ Often □ Sometimes □ Hardly ever □ Never □ DK □ Refused 33.2. Show Card 12: How often do you dry your washing inside the home in summer? [e.g on a clothes airer. Select one] □ Always □ Often □ Sometimes		Hardly ever
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 33.1. Show Card 12: How often do you dry your washing inside the home in winter? [e.g. on a clothes airer, next to heaters. Select one] Always Often Sometimes Hardly ever Never DK Refused 33.2. Show Card 12: How often do you dry your washing inside the home in summer? [e.g on a clothes airer. Select one] Always Often Sometimes 		DK
 33.1. Show Card 12: How often do you dry your washing inside the home in winter? [e.g. on a clothes airer, next to heaters. Select one] Always Often Sometimes Hardly ever Never DK Refused 33.2. Show Card 12: How often do you dry your washing inside the home in summer? [e.g on a clothes airer. Select one] Always Often Sometimes 		Refused
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 in winter? [e.g. on a clothes airer, next to heaters. Select one] Always Often Sometimes Hardly ever Never DK Refused 33.2. Show Card 12: How often do you dry your washing inside the home in summer? [e.g on a clothes airer. Select one] Always Often Sometimes 		· ·
 □ Always □ Often □ Sometimes □ Hardly ever □ Never □ DK □ Refused 33.2. Show Card 12: How often do you dry your washing inside the home in summer? [e.g on a clothes airer. Select one] □ Always □ Often □ Sometimes 	33	
 □ Often □ Sometimes □ Hardly ever □ Never □ DK □ Refused 33.2. Show Card 12: How often do you dry your washing inside the home in summer? [e.g on a clothes airer. Select one] □ Always □ Often □ Sometimes 		
 □ Sometimes □ Hardly ever □ Never □ DK □ Refused 33.2. Show Card 12: How often do you dry your washing inside the home in summer? [e.g on a clothes airer. Select one] □ Always □ Often □ Sometimes 	_	•
 □ Hardly ever □ Never □ DK □ Refused 33.2. Show Card 12: How often do you dry your washing inside the home in summer? [e.g on a clothes airer. Select one] □ Always □ Often □ Sometimes 	_	
 □ Never □ DK □ Refused 33.2. Show Card 12: How often do you dry your washing inside the home in summer? [e.g on a clothes airer. Select one] □ Always □ Often □ Sometimes 	_	
 □ DK □ Refused 33.2. Show Card 12: How often do you dry your washing inside the home in summer? [e.g on a clothes airer. Select one] □ Always □ Often □ Sometimes 		•
 □ Refused 33.2. Show Card 12: How often do you dry your washing inside the home in summer? [e.g on a clothes airer. Select one] □ Always □ Often □ Sometimes 		
 33.2. Show Card 12: How often do you dry your washing inside the home in summer? [e.g on a clothes airer. Select one] □ Always □ Often □ Sometimes 	_	
 in <u>summer</u>? [e.g on a clothes airer. Select one] □ Always □ Often □ Sometimes 	Ц	Refused
 in <u>summer</u>? [e.g on a clothes airer. Select one] □ Always □ Often □ Sometimes 	33	Show Card 12: How often do you dry your washing inside the home
□ Always □ Often □ Sometimes	33	
☐ Often ☐ Sometimes		
□ Sometimes		•
<u> </u>	_	
□ Never	_	•
□ DK		
□ Refused		





33	do you usually dry washing when drying it inside the home? [select as many as apply]
	[name rooms]
	4. [IF Yes to dry washing inside at sometime:] Show Card 13: Do you do any of the following when drying washing inside? [select as many as apply]
	Open windows
	Open exterior doors
	Use mechanical extract ventilation
	Use a dehumidifier
	None of the above
	Don't know
П	Refused





1.8 In the kitchen – cooking and washing dishes

Intro: This section of the survey asks about cooking habits and dish washing.

34.	Looking at Show Card 14, in t		<u> </u>
	_	about all meals	s cooked in the household. Select
	that apply]		
	Electric hob		Other
	Electric oven		None of these
	Gas hob		No hot meals in last seven days
	Gas oven		DK
	Microwave		Refused
	e house? [select as many as ap Mornings (breakfast/brunch) Afternoon (lunch) Evening (tea/supper) It varies	oply]	re hot meals usually cooked in
36.	Do you have a dishwasher? Yes No DK Refused	[select one]	
37. Ho	[SKIP LOGIC – if Yes to dishwas ow often is the dishwasher us More than once a day Once a day Most days (5-6 times a week) Some days (3-4 times a week) Once or twice a week (1-2 times Less than once a week Never DK Refused	sed in a typica	_





1.9 Electric vehicles

	Do you have an electric vehicle which you charge at nome? [SELECT
ON	IE]
	Yes
	No
	DK
	Refused
39.	[SKIP LOGIC - If yes to elec vehicle Q38] At what time(s) of the day do you
us	ually charge your Electric Vehicle at home? [select all that apply]
	wally charge your Electric Vehicle at home? [select all that apply] Morning
	Morning
_ _	Morning Daytime
	Morning Daytime Evening
	Morning Daytime Evening Overnight





Energy bills

Interviewer intro text: I am now going to ask about household energy bills. It will be useful to have a copy of an electricity (and gas if applicable) bill to hand if possible.

1.10 Electricity

40. Are you or someone els electricity bill? [select one]	e in this household responsib	le for paying the		
☐ Yes (go to Q41)				
☐ No (i.e. paid by someone outside of the household) [Go to Q46]				
□ DK				
□ Refused				
41. Show Card 17: How do yo	ou pay your electricity bills? [select one]		
☐ Direct debit (automatic pay	yment) – actual use			
☐ Direct debit (automatic pay	yment) - smooth pay			
☐ Pay on receipt of bill — onli	ne			
☐ Pay on receipt of bill — casl	h or cheque			
☐ Pre-payment meter				
☐ Advance/flexible payment				
☐ Other – please specify:				
□ DK				
□ Refused				
42. How much do you pay g	per unit of electricity:			
42.1. Day rate:	conta (IAMb			
	cents/kWh			
	□ DK □ Refused			
42.2. Night rate	L Refuseu			
42.2. Night rate	cents/kWh			
	☐ N/A no night rate			
	□ DK			
	□ Refused			
42.3. Controlled rate	cents/kWh			
	□ N/A no controlled rate			
	□ DK			
	□ Refused			





42.4. How much is the fixed daily charge?

Day rate:		
24, 146.	cents/day	
	☐ N/A no fixed daily rate	
	□ DK	
	☐ Refused	
		'
43. Show Card 18: When did y	you last switch electricity pro	ovider and/or
payment plan? [select one]		
☐ Within the last month		
☐ Within the last 6 months		
☐ Within the last 12 months		
☐ Within the last 2 years		
☐ More than 2 years ago		
□ Never switched		
□ DK		
☐ Refused		

44. How much was your most recent electricity bill?

Amount (\$)	[numeric] □ Don't know □ Refused
For how many days?	[numeric] □ Don't know □ Refused
During which month?	[Enter month] □ Don't know □ Refused





	Show Card 19: How would you rate your household's electricity
	nsumption? [select one]
	Very high
	Above average
	Average
	Below average
	Very low
	DK
	Refused
•	Does your payment plan include any free 'hour(s) of power' or free ower days or 'Power Shouts'? [select one] Yes – Free power days (Go to Q48)
	Yes – Free hour(s) of power (Go to Q47)
	Yes – Power Shouts
	No (Go to Q48)
	DK (Go to Q48)
	Refused (Go to Q48)
47.	[Skip logic: If yes to Q46] At what time(s) of day is your free hour(s) of ower?
рс	[Enter hour(s) in 24:00 format]
48.	Do you receive the Winter Energy Payment? No
	No
	No Yes
	No Yes DK
48	No Yes DK Refused 3.1. [skip logic: If yes to WEP Q48]: Does receiving the Winter Energy
48	No Yes DK Refused 3.1. [skip logic: If yes to WEP Q48]: Does receiving the Winter Energy Payment affect how you use energy in winter?
	No Yes DK Refused 3.1. [skip logic: If yes to WEP Q48]: Does receiving the Winter Energy Payment affect how you use energy in winter? Yes





48	3.2. IF YES: Please explain how or what difference it makes:
1.11	Mains gas
49.	Do you have a mains gas supply? [this is gas piped to the house – it does not clude LPG tanks] [select only one]
	No [If no, no further questions about mains gas] (go to Q55)
	Yes
	DK
	Refused
50 .	Are you or someone else in this household responsible for paying the
_	s bill? [select one]
	Yes
	No (i.e. paid by someone outside of the household – go to Q55)
	DK Defused
Ц	Refused
51.	Show Card 17: How do you pay your gas bills? [select one]
	Direct debit (automatic payment) – actual use
	Direct debit (automatic payment) – smooth pay
	Pay on receipt of bill – online
	Pay on receipt of bill – cash or cheque
	Pre-payment meter
	Advance / flexible payment
	Other – please specify:
	DK
п	Refused





52. 52		lo you pay per unit of gas: /ariable) rate:
	Unit rate:	cents/kWh
	DK	
	Refused	
52	2.2. Fixed	daily charge
	Daily rate:	cents/day
	N/A no fixed	daily rate
	DK	
	Refused	
53.	How much v	vas your most recent gas bill?
Amo	ount (\$)	
		[numeric]
		□ Unknown
For	how many	□ Refused
days	how many s?	[numeric]
	-	[numeric] □ Unknown
		□ Refused
1	ing which	
mon	ith?	[enter month]
		☐ Unknown ☐ Refused
54. .		: When did you last switch gas provider and/or payment
pi □	an? [select one Within the las	=
	Within the las	t 6 months
	Within the las	t 12 months
	Within the las	t 2 years
	More than 2 y	vears ago
	Never switche	_
	DK	
	Refused	





1.12 LPG Bottled Gas

55 .		G Bottled Gas? [whether for heating, hot water
and/or cooking. Don't include bar		ecue gas bottles] [select only one]
	Yes	
	No (go to Q58)	
	DK	
	Refused	
	Are you or someone else in e bottled gas? [select one] Yes	this household responsible for paying for
		de of the household) (go to Q58)
	DK	de of the household) (go to Q50)
_		
	Refused	
57.	How much do you pay for you	our LPG bottled gas?
1410110	Thy bottle rental charge	<i>[numeric]</i> \$/month
		□ N/A no monthly charge
		DK
		☐ Refused
Gas I	oottle refill/swap charge	
		[numeric] \$/bottle
		☐ DK ☐ Refused
Appr	oximately how many	
refills	s/swap per year?	[numeric] bottles/year
		□ DK
Detti	:	☐ Refused
ROLLI	e size	

kg





58. Are any of the following used for heating in this household?

1.13 Solid fuels

 \square Wood

□ Coal

 □ DK □ Refused 59. Are you or someone else in this household responsible for paying fo this? [select one] □ Yes □ No (i.e. paid by someone outside of the household) □ DK □ Refused
 59. Are you or someone else in this household responsible for paying fo this? [select one] □ Yes □ No (i.e. paid by someone outside of the household) □ DK
this? [select one] ☐ Yes ☐ No (i.e. paid by someone outside of the household) ☐ DK
this? [select one] ☐ Yes ☐ No (i.e. paid by someone outside of the household) ☐ DK
this? [select one] ☐ Yes ☐ No (i.e. paid by someone outside of the household) ☐ DK
☐ Yes☐ No (i.e. paid by someone outside of the household)☐ DK☐
□ No (i.e. paid by someone outside of the household)□ DK
□ DK
□ Refused
60. How much do you pay for your solid fuel supply?
Wood Coal
Amount paid
[numeric] \$ [numeric] \$
☐ Freely sourced ☐ Freely sourced
☐ Refused ☐ Refused ☐ Refused
[numeric] cubic[numeric] cubic meters[numeric] cubic
□ Refused □ Refused
Approximately
how many [numeric][numeric]
leade new week
iouus, yeur
□ DK □ Refused □ Refused





Home improvements

Interviewer intro text: I'm now going to ask about a range of home improvement measures that may have been made to your home or you may be planning to do.

61. Looking at Show Card 20, have you or your landlord <u>made</u> any of these changes to this house since you have lived here?

(Select which ones and record approximately when was this done.)

Show card 21: When was this done?

Measures	When?	Record when this was done from the following options:
☐ Insulated the roof space (full or topped up)		1) Within last year
☐ Insulated the subfloor		2) 1 - 2 years ago 3) 3 - 5 years ago
☐ Insulated the walls		4) 5 – 10 years ago
☐ Installed double glazing		5) More than 10 years
☐ Installed secondary glazing		ago 6) Unsure
☐ Installed a new heat pump		7) Refused
☐ Installed a new hot water cylinder/system		
☐ Fitted hot water cylinder wrap		
☐ Lagged (insulated) hot water pipes		
☐ Changed light bulbs to LEDs		
☐ Installed mechanical extract ventilation in the bathroom		
☐ Installed mechanical extract ventilation (e.g. rangehood) in the kitchen		
☐ Installed a whole-house mechanical ventilation system		
☐ Fitted floor coverings (carpet)		
☐ Installed solar hot water panels		
☐ Installed solar PV electricity panels		
☐ Added a water proof membrane between		
ground and house		
☐ Installed a low flow shower head		
☐ Fitted thermally lined/heavy curtains		
□ Other:		





62. Looking at Show Card 20, again, are you/your landlord planning to make any of these changes to this house in the next 12 months? Select which ones from list in app (checkboxes)

Me	easures easures
	Insulate the roof space (full or topped up)
	Insulate the subfloor
	Insulate the walls
	Install double glazing
	Install secondary glazing
	Install a new heat pump
	Install a new hot water cylinder/system
	Fit hot water cylinder wrap
	Lag (insulated) hot water pipes
	Change light bulbs to LEDs
	Install mechanical extract ventilation in the bathroom
	Install mechanical extract ventilation (e.g. rangehood) in the kitchen
	Install a whole-house mechanical ventilation system
	Fit floor coverings (carpet)
	Install solar hot water panels
	Install solar PV electricity panels
	Insulate the roof space (full or topped up)
	Insulate the subfloor
	Insulate the walls
	Other:
63.	Looking at Show Card 22, how would you describe the state of repair of
-	your house or flat? [SELECT ONE]
	□ No repairs / maintenance needed [go to Q66]
	☐ Minor repairs / maintenance needed
	☐ Moderate repairs / maintenance needed
[☐ Major repairs / maintenance needed
	□ DK
	□ Refused





54	_	Thinking about the repairs and maintenance which are most urgent,
		oking at Show Card 23, how long have these repairs or maintenance been
		eded for? [SELECT ONE]
		Less than 1 month
		1 month or more but less than 6 months
		6 months or more but less than 1 year
		1 year or more but less than 2 years
		2 years or more
		DK
		Refused
65	5.	FILTER QUESTION: Interviewer select: Householder is owner-occupier?
		Yes -> 65.1
		No -> 65.3
	65	this repair or maintenance hasn't been done? [Select all that apply]
		Don't know how best to repair/ maintain
		It costs too much
		It takes too much time/effort/energy
		It will be too disruptive
		Other things more important to do
		Not considered urgent yet
		Just been put off
		Other – please state:
		DK
		Refused
	65	these repairs to be done? [Select all that apply]
	Ш	Within next 6 months
		within 6 – 12 months
		next year (more than 12 months time, less than 24 months time)
		in 2 -3 years time
		in 4 – 5 years time
		in 5 – 10 years time
		more than 10 years time
		never
		Don' know
		Refused





65.3. [for tenants] Looking at Show Card 26, what are the reasons this
repair or maintenance hasn't been done? [Select all that apply]
☐ the landlord has not been contacted yet
☐ the landlord has not done the work yet
☐ the landlord is not willing to get the work done
☐ cannot agree with the landlord about how to do the repair / maintenance
$\hfill\Box$ cannot agree with the landlord about who should do the repair / maintenance
□ other - please state:
□ DK
□ RF
terviewer intro text: I am now going to read out several statements about thing

 $\textbf{Interviewer intro text} \colon I \text{ am now going to read out several statements about things} \\ \text{you might think about when using energy in the home.}$

66. Show Card 27: How important are each of these things to you when thinking about using energy in the home from Very Important, Somewhat Important, or Not Important?

	Very	Somewhat	Not	Don't	Refused
	important	important	important	know	
keeping energy costs					
low					
being comfortable					
using energy					
efficiently					
reducing carbon					
emissions					





Comfort, damp and mould

Interviewer intro text: This section of the survey asks about comfort and problems with damp and mould in the home.

67.	, , ,
	ouse or flat colder than you would like? [select one]
	Yes – always Yes – often
	Yes – sometimes
	No (Go to Q69)
	I have not spent a winter living in this house or flat (Go to Q71)
	DK Deferred
Ц	Refused
68.	Looking at Show Card 29, What were the reasons for your house being
	older than you would like? [select all that apply]
	Trying to keep cost of heating down
	Any heat just disappears (it doesn't warm up or stay warm despite heating)
	Like to have windows open
	and the state of t
	Other household members like it cooler
	Not enough heaters / heaters insufficient
	Doesn't get enough sun
	Preference / habit not to heat (not because of costs)
	Trying to use less energy for environmental reasons
	Other:
	DK
	Refused
69.	Show Card 28: In winter, does any part of your house or flat get cold
	nough that you can see your breath? [SELECT ONE]
	Yes – always
	Yes – often
	Yes – sometimes
	No
	I have not spent a winter living in this house or flat
	DK
	Refused





70		Show Card 28: In winter, does any part of your house or flat ever get
		Id enough that you shiver? [SELECT ONE]
		Yes – always
		Yes – often
		Yes – sometimes
		No The state of th
		I have not spent a winter living in this house or flat
		DK
		Refused
71	or	Looking at Show Card 28, thinking back to last summer, was your house flat ever warmer than you would like? [select one] Yes – always
		Yes – often
		Yes – sometimes
		No
		I have not spent a summer living in this house or flat
		DK
		Refused
72	th	Does any part of your home get mould growing on it, for example on e walls, ceiling, window frames, curtains or blinds? [SELECT ONE] Yes
		No
		DK
		Refused
73	pa	Show Card 28: Is the mould seen in this house larger than this sheet of per/showcard [A4]? Yes – always
		Yes - often
		Yes – sometimes
		No
		DK
		Refused

74. Show Card 28: Does any part of your home ever get condensation on windowsills or windowpanes in winter? [SELECT ONE]





	Yes – always
	Yes - often
	Yes - sometimes
	No never
	DK
	Refused
- -	Character 20. Would not south before an flet is shown afternoon of the
75. da	Show card 28: Would you say this house or flat is always damp, often imp, sometimes damp, or not damp at all?
	Yes – always
	Yes - often
	Yes - sometimes
	No never
	DK
	Refused
76.	Show card 28: Would you say this house or flat is always draughty, ten draughty, sometimes draughty, or not draughty at all?
	Yes – always
	Yes - often
	Yes - sometimes
	No never
	DK
	Refused





Energy attitudes and practices

because you felt unable to pay for it?

☐ Yes - often

☐ Yes – occasionally

Interviewer intro text: This section is about attitudes to energy use in the home and energy saving behaviours.

Show Card 30: In the past year have you ever gone without heating

□ No - never□ DK□ Refused								
 78. Does anyone in the household su use? Yes No DK Refused 79. I am going to read out several start Show Card 31, please state how strong statement. [Select one] 	atem	ents.	Look	ing a	t the	optio	ons o	n
	Strongly disagree	Disagree	Neutral	Agree	Strongly agree	N/A	DK	Refused
I only buy appliances with high energy efficiency ratings even if they cost more								
I think about ways of saving energy in my home								
I pay much attention to how much my energy bill is each month								
I have made changes to reduce the amount of energy I use								
I have made changes to help make my home a more comfortable temperature								





	Strongly disagree	Disagree	Neutral	Agree	Strongly agree	N/A	DK	Refused
I am satisfied with my main method of heating								
My home is a healthy place to live								
I would like my home to be warmer in winter								
Making choices about energy efficiency in the home is complex								

80. I am going to read out some actions and things you can do to save energy in the home. Looking at the options on Show Card 32, please state how often you do these things. [Select one]

	Never	Rarely	Sometimes	Often	Always	N/A	DK	Refused
Turn appliances off at the wall (not leaving on standby)								
Rinsing dishes with cold water								
Reduce / do not heat in unoccupied rooms								
Switch off lights in unoccupied rooms								
Wait for a full load before using washing machine								
Put on more clothing before turning heating up								
Take shorter showers								
Clean heat pump filters								
Only boil the water I need in the kettle/jug								
Turn off the TV if no one is watching it								

End of Survey





Show cards

Show Card 1

- Less than 1 year
- 1 year or more but less than 3 years
- 3 years or more but less than 5 years
- 5 years or more but less than 10 years
- 10 years or more
- Don't know
- Refused

Show Card 2 – Times of day someone usually at home during winter

- All or most of the time
- 6am to 9am
- 9am to 12pm
- lunchtime (12pm to 2pm)
- afternoons (2pm to 5pm)
- evenings (5pm onwards)
- Highly variable

Show Card 3 – How often (days)

- Every day
- Most days
- Some days
- Hardly ever
- Never

Show Card 4 - Times of day heat

- Mornings
- Afternoons
- Evenings
- Overnight
- Never

Show Card 5 – Heating appliances

- Heat pump
- Fixed electric heater
- Electric night-store





- Enclosed Wood burner
- Pellet burner
- Open fire
- Coal burner
- Fixed gas flued
- Fixed gas unflued
- Portable electric
- Portable gas heater
- Ducted heat pump
- Central heating gas
- Central heating electric
- Central heating pellet burner
- Underfloor heating electric
- Underfloor heating gas
- Other

Show Card 6 – Things you might do to help keep warm in the home in winter

- Electric/heated blanket(s)
- Hot water bottle(s)
- Extra blanket(s) / winter duvet
- Extra layers (clothes) slippers
- Close curtains
- Use draft stoppers
- Bubble wrap/insulation on windows
- Have a hot shower/bath
- Go to bed earlier
- Sleep in one room
- Close off/don't use some rooms
- Other

Show Card 7 – How often (times)

- every time
- most times
- sometimes
- hardly ever
- never

Show Card 8 – Things you might do to help keep cool in the home in summer

Leave windows open all day





- Leave windows open all night
- Open windows and doors to create a cross-breeze
- Close curtains/blinds
- Use awning/louvres
- Use electric fans (include ceiling fans)
- Use heat pump/air conditioner on fan setting (not cooling)
- Other _____
- None of the above
- DK
- Refused

Show Card 9 – Loads of washing done in the household in a typical week

- None
- Less than one load of washing per week
- One load of washing per week
- Two loads of washing per week
- 3 4 loads of washing per week
- 5 6 loads of washing per week
- 7 loads of washing per week
- More than 7 loads of washing per week
- N/A no washing machine

Show Card 10 – Temperature setting for washing machine

- Hot wash
- Warm wash
- Cold wash
- N/A no washing machine
- N/A no washing typically done in the household

Show Card 11 - Times of day laundry typically done

- Mornings
- Afternoons
- Evenings
- Overnight
- Whenever it's needed
- N/A no washing machine
- N/A no washing done in household





Show Card 12 – Drying clothes (frequency)

- Never
- Rarely
- Sometimes
- Often
- Always
- Not applicable
- Don't know

Show Card 13 - Things you might do when drying washing inside

- Open windows
- Open exterior doors
- Use mechanical extract ventilation
- Use a dehumidifier
- None of these things

Show Card 14 – Appliances used for cooking hot meals in the home

- Electric hob
- Electric oven
- Gas hob
- Gas oven
- Microwave
- Other

Show Card 15 - Times of day hot meals cooked in the home

- Mornings (breakfast/brunch)
- Afternoon (lunch)
- Evening (tea/supper)
- It varies
- Don't usually have any hot/home-cooked meals
- Don't know
- Refused

Show Card 16 – How often dishwasher is used in a typical week

- More than once a day
- Once a day
- Most days (5 6 times a week)
- Some days (3 4 times a week)
- Once or twice a week (1 2 times week)





- Less than once a week
- Never

Show Card 17 – How do you pay your energy bill

- Direct debit (automatic payment) actual use
- Direct debit (automatic payment) smooth pay
- Pay on receipt of bill online
- Pay on receipt of bill cash or cheque
- Pre-payment meter
- Advance / flexible payment
- Other please specify

Show Card 18 – When last switched Retailer or Payment Plan

- Within the last month
- Within the last 6 months
- Within the last 12 months
- Within the last 2 years
- More than 2 years ago
- Never switched

Show Card 19 - How you rate your households electricity use

- Very high
- Above average
- Average
- Below average
- Very low
- DK

Show Card 20 - Changes made to the home or planning to make

- Insulated the roof space
- Insulated the subfloor
- Insulated the walls
- Installed double glazing
- Installed a new heat pump





- Installed a new hot water cylinder
- Fitted hot water cylinder wrap
- Lagged (insulated) hot water pipes
- Changed light bulbs to LEDs
- Installed mechanical extract ventilation in the bathroom
- Installed mechanical extract ventilation (e.g. rangehood) in the kitchen
- Installed a whole-house mechanical ventilation system
- Fitted floor coverings (carpet/rugs)
- Installed solar hot water panels
- Installed solar PV electricity panels
- Installed a micro windfarm
- Added a water proof membrane between ground and house
- Installed a low flow shower head
- Fitted thermally lined/heavy curtains

Show Card 21 – When changes were made

- Within last year
- 1 − 2 years ago
- 3 5 years ago
- 5 10 years ago
- More than 10 years ago

Show Card 22 - State of repair of house/flat

- No repairs / maintenance needed
- Minor repairs / maintenance needed
- Moderate repairs / maintenance needed
- Major repairs / maintenance needed

Show Card 23 – How long repairs/maintenance been needed for

- Less than 1 month
- 1 month or more but less than 6 months
- 6 months or more but less than 1 year
- 1 year or more but less than 2 years
- 2 years or more
- Don't know





Show Card 24 - Reasons for not doing repairs or maintenance - owner occupier

- Don't know how best to repair/ maintain
- It costs too much
- It takes too much time / effort/ energy
- It will be too disruptive
- Other things more important to do
- Not considered urgent yet
- Just been put off
- Other

Show Card 25 – When are repairs expected to be done

- Within the next 6 months
- Within the next 12 months
- Next year (more than 12 months time, less than 2 years time)
- In 2 -3 years time
- In 4 5 years time
- In 5 10 years time
- In more than 10 years time
- Never
- Don't know

Show Card 26 - Reasons for not doing repairs or maintenance - rental

- The landlord has not been contacted yet
- The landlord has not done the work yet
- The landlord is not willing to get the work done
- Cannot agree with the landlord about how to do the repair / maintenance
- Cannot agree with the landlord about who should do the repair / maintenance
- Other
- Don't know

Show Card 27 – How important

- Very important
- Somewhat important
- Not important





Show Card 28 - How often

- Yes always
- Yes often
- Yes sometimes
- No.

Show Card 29 - Reasons house colder than would like

- Trying to keep cost of heating down
- Any heat just disappears (it doesn't warm up or stay warm despite heating)
- Like to have windows open
- It is healthy to keep your body cooler
- Other household members like it cooler
- Not enough heaters available in the house
- Doesn't get enough sun
- Chose not to heat (for reasons other than cost)
- Trying to use less energy for environmental reasons
- Other

Show Card 30 – Gone without heating because of cost

- Yes often
- Yes occasionally
- No never

Show Card 31 – Agree/disagree

- Strongly disagree
- Disagree
- Neutral
- Agree
- Strongly agree
- Not applicable
- Don't know

Show Card 32 – Frequency

- Never
- Rarely
- Sometimes
- Often
- Always





- Not applicable
- Don't know