LONGITUDINAL STUDY ON ELECTRICITY CONSUMPTION

LIRNEasia | LECO | SRL 19th Feb 2025

WAVE 1 QUESTIONNAIRE

Module A: Geographic and Related Information

This module is designed to collect information about the location and geographic attributes of the household and is not intended to be posed as questions to the participants.

A.1		
ASK: Do not ask. Interviewer to	TYPE: Fill in	
enter the unique ID of the		
customer and the rest of the		
information to be auto filled		
from the LECO database		
a) Unique ID of LECO customer (to be entered by the interviewer)		
INSTRUCTIONS TO PROGRAMMER: THE FOLLOWING INFORMATION TO BE AUTO-CODED		
	MER DATABASE AND THE UNIQU	E NOWIDER ENTERED BY THE
INTERVIEWER		
b) Province (to be auto cod	led from the LECO database)	
c) District		
d) LECO Branch		
e) IFCO CSC area		

Module SC: Screener

f) Meter type

Introduction

customers.

INSTRUCTIONS TO INTERVIEWERS:

ASK TO SPEAK TO THE HOUSEHOLD HEAD (THE PERSON RESPONSIBLE FOR MAKING THE MAIN HOUSEHOLD FINANCIAL DECISIONS). IF NOT AVAILABLE, CONTACT THE SECOND-MOST KNOWLEDGEABLE PERSON REGARDING HOUSEHOLD DETAILS.

IF BOTH ARE NOT AVAILABLE, THE HOUSE SHOULD BE REVISITED AT A LATER TIME (THE TIME OF DAY

BEING DIFFERENT TO THE TIME THAT THE FIRST VISIT WAS MADE; INQUIRE FROM OTHER MEMBERS AS THE TIME THE RELEVANT PERSON WILL BE HOME. A MINIMUM OF THREE ATTEMPTS TO REACH THIS PERSON SHOULD BE MADE BEFORE A HOUSEHOLD IS REPLACED.		
INTERVIEWER TO READ:		
Hello, my name is	, I am from	$_{ t L}$. Currently, we are conducting a survey
among LECO customers to unders	stand various aspe	ects, such as the electricity usage habits
of different household types, the	appliances commo	only used in households, and how the
physical attributes of a household	l influence electric	city consumption.
This study is conducted together	with LIRNEasia, an	other research organization. LECO has

partnered with LIRNEasia for this survey and has shared the contact details of a sample of its

W1_Sc.0
ASK: All Respondents TYPE: Single Selection Ref: RECS-Your Home

Is this premises used as a household or for a business / commercial purpose?

INT. INSTRUCTIONS: If used as both household and for business purposes, mark as household and proceed.

1. Household → PROG. INS: CONTINUE

2. Business purposes → PROG. INS: TERMINATE

W1_Sc.1

ASK: All Respondents TYPE: Single Selection

Are you the household head? By household head, I mean the person who makes the most important financial decisions in the house/the person who contributes to the maximum of HH day-to-day expenses.

1. Yes à PROG. INS: GO TO W1 Sc.3

0. No

W1_Sc.2
ASK: IF W1_Sc.1 = 0 TYPE: Single Selection

Are you able to accurately tell me about the details related to the household?

1. Yes

0. No \rightarrow INT. INSTRUCTIONS: seek out suitable respondent; if not available, inquire as to when either of them will be available and revisit at that time. Thank respondent and continue to W1_Sc.3 then terminate

W1_Sc.3

ASK: All Respondents TYPE: Single Selection

Record number of attempts that have been made to meet with this household respondent.

- 1. 1st Attempt
- 2. 2nd Attempt
- 3. 3rd Attempt
- 4. Replacement from database

Module CS: Consent form

As mentioned, we are conducting this survey among LECO customers on their electricity consumption habits and usage. This survey will consist of three rounds where we will conduct three interviews with you within the next one year. i.e.; one interview will be conducted this month, then 2nd interview in another 2-3 months and the third interview in another 2-3 months after the second interview.

If you agree, we would like to ask you some questions regarding your household and the electricity consumption at your household. This will take about 60 minutes in total.

If you choose to participate, please be assured that all the information given by you will be kept totally confidential. It will be shared with LIRNEasia only. This information will be combined with similar information from thousands of other people in to look at the average behaviour across society. There are no obvious physical, legal, or economic risks associated with participating in this study because your information will not be used in an identifiable manner.

Further, based on your consent, LECO will provide your past electricity consumption data to LIRNEasia.

Participation in this survey is voluntary. You may decline from answering any question at any time. You may also ask questions at any time. You may terminate your participation at any time. However, we hope that you will take part in this survey since your participation is important.

W1_Cs.1		
ASK: All Respondents	TYPE: Single Selection	
Do you consent to participate in this study and to provide your data to LIRNEasia?		
1. Yes		

0. No à TERMINATE. RANDOM REPLACEMENT OF HOUSEHOLD.

W1_Cs.2		
ASK: All Respondents	TYPE: Single Selection	
May we audio record some parts of this interview for quality checking purposes?		
1. Yes		
0. No		

Module EM: Electricity Meter Details

W1_EM.1		
ASK: All Respondents	TYPE: Single Selection	
Can you please tell me how many electricity meters are there in your house?		
 1-meter → INST. TO PROGRAMMER: DISPLAY DEFINITION OF HOUSEHOLD – 1 		
2. 2 meters → INST. TO PROGRAMMER: DISPLAY DEFINITION OF HOUSEHOLD – 2		
3. More than 2 meters → INST. TO PROGRAMMER: GO TO W1_EM.2		

W1_EM.2		
ASK: W1_EM.1 = 3	TYPE: Single Selection	
Can you please tell me how many electricity meters are there in your house?		
RECORD THE NUMBER OF ELECTRICITY METERS:		
INST. TO PROGRAMMER: DISPLAY DEFINITION OF HOUSEHOLD – 2		

DEFINITION OF HOUSEHOLD - 1

INTERVIEWER TO SAY: For the purpose of this survey, we are defining the house as the area covered by the electricity meter. Therefore, when answering the questions, please consider only the household area that is covered by the electricity meter which is billed to the address _____ (PROG: TO DISPLAY THE ADDRESS OF THE HOUSEHOLD). Please consider all areas such as living rooms, bedrooms, kitchen, washrooms, toilet etc. including the garden areas which are covered by this meter.

DEFINITION OF HOUSEHOLD – 2

INTERVIEWER TO SAY: For the purpose of this survey, we are defining the house as the area covered by the electricity meter. Therefore, when answering the questions, please consider only the household area that is covered by the electricity meter which is billed to the address _____ (PROG: TO DISPLAY THE ADDRESS OF THE HOUSEHOLD). Please consider all areas such as living rooms, bedrooms, kitchen, washrooms, toilet etc. including the garden areas which are covered by this meter. However, if there are areas within the household which are covered by any other electricity meters, please do not consider these parts of the household when answering these questions. For example, if there is a room in the household that is covered by another electricity meter or if the upstairs of the house is covered by a separate electricity meter, please do not consider these areas when answering the questions.

W1_B.1		
ASK: All Respondents	TYPE: Single Selection	Ref: RECS-Your Home

Do you or any member of your household own this house or are you living on rent?

- 1. Yes, I or a household member owns it.
- 2. No, I am living on rent and the rent is paid by me or a household member.
- 3. No, I am living on rent and the rent is paid by the employer.
- 4. No, I or any household member does not own or rent this household. We occupy this household without any payment of rent.

W1_C.3		
ASK: W1_B.1 = 1	TYPE: Single Selection	

Do you occupy any of the following people in your house? By house, we mean the area covered by your electricity meter.

- 1. Renters / boarders who are living in your annexe or any other attached place, maintaining separate living conditions but share the same electricity meter.
- 2. Boarders who live in your house using a room/s that is attached to your living conditions.
- 3. I don't occupy any of the above.

W1_C.5		
ASK: W1_C3 = 1 or 2	TYPE: Single Selection	INSTRUCTIONS TO PROGRAMMER:
		TERMINATE IF CODED 2 OR 3

Which of the following best describes your awareness of the electricity consumption of renters/boarding people? Are you aware of details such as the appliances they use and the number of hours they use each appliance, the times they keep the lights and fans switched on etc.?

- 1. I know all the details about the electricity consumption of the renters/ boarders; i.e.; the appliances they use and the number of hours they use each appliance, the times they keep the lights and fans switched on etc. → PROG. INS: CONTINUE
- 2. I know some details about the electricity consumption of the renters/ boarders; i.e.; the appliances they use and the number of hours they use each appliance, the times they keep the lights and fans switched on etc. → PROG. INS: TERMINATE
- 3. I do not know any details about the electricity consumption of the renters/ boarders; i.e.; the appliances they use and the number of hours they use each appliance, the times they keep the lights and fans switched on etc. → PROG. INS: TERMINATE

Module B: Housing History and Ownership

INTERVIEWER TO SAY: First, we would like to get some information regarding the household; about the household type, when it was built, etc.

W1_B.2			
	ASK: All Respondents	TYPE: Single Selection	Ref: RECS-Your Home

Which of the following time periods best describes when your house was built? Knowing when the house was built will help us to understand whether there's any difference in older homes and newly built homes with regard to electricity consumption. for example, compared to a household built before 1980, a household built recently may use different techniques, improved material etc., which will help reduce energy consumption.

INT. INSTRUCTIONS: If the house was built in parts at different time periods OR a part of the house was re-built, please take the time period as the time when most part of the house was built.

- 1. Before 1980
- 2. 1980-1989
- 3. 1990-1999
- 4. 2000-2009
- 5. 2010-2019
- 6. In 2020 or After 2020
- 7. Don't know (to be displayed only if $W1_B.1 = 2$, 3 OR 4)

W1 B.5 (SHOWCARD)

ASK: All Respondents TYPE: Single Selection Ref: HIES

Select the best option which describes your house.

- 1. Single House Single Floor → ASK W1 B.8
- 2. Single House -Double Floor → ASK W1 B.8
- 3. Single House More than 2 floors → ASK W1_B.7, W1_B.8
- 4. Attached house / Annex. → ASK W1_B.7, W1_B.8
- 5. Flat → ASK W1 B.6, W1 B.7, W1 B.8
- 6. Condominium/ Luxury apartments → ASK W1_B.6, W1_B.7, W1_B.8

- 7. Twin houses \rightarrow ASK W1_B.7, W1_B.8
- 8. Line room/row house → ASK W1_B.7, W1_B.8
- 9. Slum / Shanty → ASK W1 B.7, W1 B.8
- 10. Other \rightarrow ASK W1_B.7, W1_B.8

W1_B.6		
ASK: If W1_B.5 = 5 or 6	TYPE: Fill in	
lowest floor) The floor in which y how much natural light it gets. U	on? (if the house occupies multip your house is located can affect ho sually, higher floors need more er o outdoor temperatures whereas	ow much energy it needs and nergy for heating and cooling
INT. INSTRUCTIONS:		
Floor in which the house is locate	ed:	

W1_B.7			
ASK: If W1_B.5 not equal to 1 or 2	TYPE: Fill in	Ref: RECS-Your Home	
How many storeys does your house	nave?		
INSTRUCTIONS TO INTERVIEWERS: I	INSTRUCTIONS TO INTERVIEWERS: If the household type is a flat or a luxury apartment, please		
consider the number of floors the respondent's unit occupies. For example, if the respondent's			
unit is located on the 3 rd floor but occupies only one floor (i.e.; does not have any connection to			
an upper floor), then it will be a one storey house. However, if the respondent's unit is located on			
the 3 rd floor and has two floors (i.e.; is connected to the floor above from an internal staircase),			
then it will be considered as a two st	orey house.		
No of storovs:			

PROG INS: ONLY INTEGER VALUES CAN BE ACCEPTED

PROG INS: ONLY INTEGER VALUES CAN BE ACCEPTED

W1_B.8
ASK: All Respondents TYPE: Fill in Ref: RECS-Your Home

Can you please tell me what is the floor area of this household? i.e.; how many square feet does this household cover? Please remember, when we say household, what we mean is the parts of the household that is covered by the electricity meter.

INSTRUCTIONS TO INTERVIEWERS: If the respondent is not able to state the floor area of the house, prompt him/ her by asking for the length and width of the household.

State the area of your house in square feet.:

Module C: Demographics

INTERVIEWER TO SAY: The number of members staying at the household, their behaviour in terms of whether they stay at home whole day or whether they go out, the number of hours they stay at home etc. will have an influence on how electricity is used in your household. Therefore, we would like to get some information regarding the household members such as

how many members are living in this household, their details such as age, gender, whether they are studying or working, how many hours they stayed at home etc..

W1_C.1						
ASK: All Respondents	TYPE: Fill in	Ref: RECS-Your Home				
Please tell me the number of members living in this household. By household, I mean the area covered by the electricity meter. If there are members who are temporarily living abroad or living in some other part of Sri Lanka, please include them as well. Also, if there are any boarders or those who are living on rent or if you have any maids/ housekeepers staying in this household, please include them as well.						
No. of household members: PROG INS: ONLY INTEGER VALUES CAN BE ACCEPTED						

W1_C.2: DEMOGRAPHIC ROSTER

INSTRUCTIONS TO PROGRAMMER: REPEAT THE BELOW QUESTIONS INTO NO. OF FAMILY MEMBERS TIMES. [Ref: HIES and RECS]

I will now ask a few questions regarding each household member. Please start with the head of the household and then the move from the

eldest member to the youngest.

	W1_ C.2. a	W1_C.2.b	W1_C .2.c	W1 _C.2 .d	W1_C.2 .d.1	W1_C.2.e	W1_C.2.f	W1_C.2.g	W1_C.2.h	W1_C.2.i	W1_C.2.j	ASK IF C.2.j = ECO	ONOMICALLY AC	TIVE (CODED 1,2 OR	W1_C.2.n
												W1_C.2.k	W1_C.2.I	W1_C.2.m	
No	Nam e of the me mbe r INST RUC TIO NS TO INT. : Plea se ente r the first nam e of the hou seh old me mbe r Do not ente r only	Relationshi p to the head of the household. (SINGLE ANSWER) 1. Head of the household 2. Wife/Husba nd 3. Son/daught er 4. Son-in- law/Daught er in law 5.Parents of the head of the Household/ spouse 6. Grandson/ Granddaugh ter 7. Other relative 12. Refused to answer 86. Domestic servant/driv er/watcher	Gend er (SING LE ANS WER) 0. Male 1.Fem ale 2.Oth er	Year of birt h TO BE FILL ED IN	Age (PROG: THIS SHOUL D NOT BE ASKED. TO BE CALCUL ATED BASED ON THE YEAR OF BIRTH AND DISPLA YED)	Ethnicity (SINGLE ANSWER) 1.Sinhala 2.Sri Lankan Tamil 3.Indian Tamil 4.Sri Lankan Moor/Musl im 5.Burgher 6.Malay 9.Other	Religion (SINGLE ANSWER) 1.Buddhis m 2.Hinduis m 3.Islam 4.Roman Catholicis m 5.Other Christian denomina tions 6.No religion 9.Other	Marital status. (SINGLE ANSWER) 1. Never married 2. Currentl y married (registere d) 3. Currentl y married (customar y) 4. Widowe d 5. Divorce d 6. Legally separated 7. Separat ed (not legally) 8. Not married but lives as a Family	ASK ONLY IF THE MEMBER IS AGED 3 YRS OR ABOVE Current attendance at school or any other educational institution. i.e.; is he/ she currently doing any type of studying? This could be a degree, MBA etc., or following a course like CIMA, CIM or a vocational training course? (SINGLE ANSWER)	ASK ONLY IF THE MEMBER IS AGED 5 YRS OR ABOVE Highest level of education. (SINGLE ANSWER) 0.No Schooling 1.Studying/Studie d Grade 1 2.Passed Grade 1 3.Passed Grade 2 4.Passed Grade 3 5.Passed Grade 4 6.Passed Grade 5 7.Passed Grade 6 8.Passed Grade 7 9.Passed Grade 7 9.Passed Grade 8 10.Passed Grade 9 11.Passed Grade 10 12.Passed Grade 11 12.Passed Grade 12 14.Passed Grade 15.Passed GAQ (General Arts Qualifying (External)	ASK ONLY IF THE MEMBER IS AGED 12 YRS OR ABOVE Main activity usually engaged in? (SINGLE ANSWER) Economically Active 1.Engaged in economic activity/ currently employed/ engaged in own business 2.Retired and obtaining government/semigovernment pension payment and is currently engaged in economic activity (employed elsewhere other than the place where he/she is receiving the pension from / engaged in own business) 3.Seeking for and available to work	Main occupation. (SINGLE ANSWER) 1.Legislator, senior official, and manager 2.Professional 3.Technician and associate professional 4.Clerk 5.Service worker and shop and market sales worker 6.Skilled agricultural and fishery worker 7.Craft and related worker 8.Plant and machine operator and assembler 9.Elementary occupation	Daily wage owner? (SINGLE ANSWER) 1. Yes 2. No	Employment status of main occupation. (SINGLE ANSWER) 1.Government employee 2.Semi government employee 3.Private sector employee 4.Employer 5.Own account worker 6.Contributing family worker	The electricity consumption can vary based on the time that people stay at home. Therefore, we would like to know the number of hours stayed at home during last week for each member. (PROG: VALUES CAN BE FROM 0-168) INSTRUCTI ONS TO INT.: PROBE FOR WEEKDAYS AND WEEKENDS

						1	1			1	
	the	88. Don't				1.Preschool	Examination)/GS	Economically	99.Related to		SEPARATEL
	initi	know			9. Other		Q (General	Inactive	forces.		Υ
	als	97. Boarder				2. School	Science Qualifying	4.Retired -			
	and	109. Other					examination)	Obtaining	11.No occupation		
	the					3.University	16.Passed Degree	government/semi-			INSTRUCTI
	surn						/ Diploma	government			ONS TO
	ame					4.Other	17.Passed post	pension payment			INT.:
	aille					educational	Graduate Degree	and currently not			Please use
						institution	/ Diploma	engaged in			
							18.PhD	economic activity			the
						5.Vocational	19.Special	(not employed			following –
						/Technical	Education	elsewhere or not			15 min =
						Institution	learning / learnt.	engaged in any own			0.25 hrs
							G,	business)			20 min =
						6.Pending		5.Retired from the			0.33 hrs
						results		private/semi-			30 min =
						G.C.E. (O.L /		government sector			0.5 hrs
						A.L)		and does not obtain			40 min =
						72/		any pension			0.66 hrs
						7.Still a		payment.			
						toddler		6.Received other			45 min =
						toddici		pension payments.			0.75 hrs
						8.Does not		7.Household			60 min = 1
						attend		activities			hr
						attenu		8.Student			If used
											24x7 = 168
								9.Too old / Disable/			hrs
								unable to work.			
								10.Other			
-											

W1_C.4		
ASK: W1 C3 = 1 or 2	TYPE: Single Selection	

You mentioned that there are renters or boarders living in this household who share the same electricity meter. Which of the following best describes how you charge them for electricity?

INSTRUCTIONS TO INTERVIEWERS: READ OUT THE ANSWERS

- 1. You charge a fixed amount every month for electricity.
- 2. You charge an amount for electricity depending on the variance of the bill.
- 3. You don't charge a specific amount for electricity but charge a fixed amount for all the utilities such as electricity, water etc.
- 4. You don't charge a specific amount for electricity but charge a varied amount for all the utilities such as electricity, water etc. The amount charged varied based on the utility bills
- 5. You don't charge them for electricity consumption

W1_C.6		
ASK: $W1_B.1 = 2 \text{ or } 3 \text{ or } 4$	TYPE: Single Selection	

You mentioned that you are living on rent. Which of the following best describes the payment for your electricity consumption?

INSTRUCTIONS TO INTERVIEWERS: READ OUT THE ANSWERS

- 1. You pay the full amount of the electricity bill.
- 2. You pay a fixed amount to the owner every month for electricity.
- 3. You pay a varied amount to the owner every month for electricity. The amount paid varies depending on the variance of the bill.
- 4. You don't pay a specific amount for electricity, but pay a fixed amount for all the utilities such as electricity, water etc.
- 5. You don't pay a specific amount for electricity, but pay a varied amount for all the utilities such as electricity, water etc. The amount paid varies depending on the variance of the utility bills.
- 6. You don't pay the owner for electricity consumption

W1_C.7				
ASK: Ask All	TYPE: Single Selection			
to the control of the control of the first of the control of the c				

Is there any business activity that is being carried out in any part of this household such as a shop, a communication, your own office etc. for which, electricity is used from the same meter?

- 1. Yes
- 0. No

W1_C.8		
ASK: IF W1_C.7 = 1	TYPE: Single Selection	

What type of business activity is being carried out in this household?

- 1. A shop
- 2. A communication
- 3. Other (specify)

Module D: List of appliances in the household

INTERVIEWER TO SAY:

As mentioned earlier, we are doing this study to get an understanding of what all are related to the electricity consumption. As you know, the electricity consumption depends on the electric appliances used in your household. Therefore, I'd like to ask a few questions regarding the electric appliances that are there in your household which are in working condition and a few questions on your usage habits of these appliances.

Annlianco	Appliance	W1 D1. Do	DDOC: ASK W/1	D2 AND W1 D3 TOGETHER
Appliance	Appliance	_		OF APPLIANCE BEFORE
category	(SHOWCARD)	you have any of these		
				HE NEXT TYPE OF APPLIANCE
		appliances in	W1_D2. No	W1_D3. Duration of usage in
		your household in	of appliance	hours during the last week
			of the type	INSTRUCTIONS TO INT.:
		working condition		PROBE FOR WEEKDAYS AND
		which you		WEEKENDS SEPARATELY
		have used at		(DDOC: ACK SEDERATELY
		least once?		(PROG: ASK SEPERATELY FOR THE NUMBER OF
		least office:		APPLIANCES)
		If you have		•
		If you have boarders or		(PROG: VALUES CAN BE FROM 0-168)
		those who		INSTRUCTIONS TO INT.:
		are living on		
		rent in your		Please use the following – 15 min = 0.25 hrs
		household,		
				20 min = 0.33 hrs 30 min = 0.5 hrs
		please		
		include the		40 min = 0.66 hrs
		electrical		45 min = 0.75 hrs
		appliances		60 min = 1 hr
		used by them as well.		If used 24x7 = 168 hrs
	Refrigerator	1		
	-	2		
	Separate Freezer			
	Mini Bar	3		
	Microwave	4		
	Electric Oven	5		
	Electric cook tops (induction cookers, Infra-red cookers, hot plates)	6		
S	Electrical exhaust fan fitted above the	7		
NCES	oven or the hot plate			
	Electric Blender	8		
PPI	Electric grinder	9		
4 2	Electric mixer / beater	10		
-	Electric food processor	11		
KITCHEN APPLIA	Rice cooker	12		
	Electric Kettle	13		
	Electric water heater to heat water for	14		
	drinking purposes Toaster / Sandwich toaster	15		
	Waffle maker	16		
	Electric pressure cooker	17		
	·			
	Air fryer	18		
	Coffee maker	19		

	-1	20	
	Electric grill	20	
	Electric coconut scraper	21	
	Electric Water filter / water dispenser	22	
	Dish washer	23	
	Washing Machine	24	
	Clothes dryer	25	
IG SES	Electric Iron including electric steam	26	
	iron Electric Vacuum Cleaner	27	
CLEANING APPLIANCES			
CL APF	Electric floor polisher Electric water gun (used to wash cars	28	
	etc.)	29	
	Electric Lawn mower	30	
	TV	31	
	TV antenna	22	PROG: DURATION OF USAGE IS NOT
3		32	REQUIRED PROG: DURATION OF USAGE IS NOT
<u> </u>	Dialog TV / Peo TV / Satellite TV box	33	REQUIRED
PPI	Radio	34	
ENTERTAINMENT APPLIANCE	Bluetooth Speakers	35	
L N	DVD / VCD	36	
Σ	Gaming console/PlayStation	37	
All	Sound systems (Subwoofer)/Stereo	38	
I RI	Camera (that needs to be charged		INS. TO INT: ASK FOR THE TIME TAKEN
<u>E</u>	using electricity)	39	TO CHARGE
Ш	Home theater system	40	
	Electric musical Instruments (ex.: electric organ, electric guitar etc.)	41	
	Computers	42	
	Laptops		INS. TO INT: ASK FOR THE TIME TAKEN
		43	TO CHARGE
	Routers	44	1112 111 11
	Mobile phone – Smart phones	45	INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
	Mobile phone – Feature phones		INS. TO INT: ASK FOR THE TIME TAKEN
	Woolie phone Teature phones	46	TO CHARGE INS. TO INT: ASK FOR THE TIME TAKEN
	Mobile phone – Basic phones	47	TO CHARGE
	Fixed phones	48	
10	Power banks	40	INS. TO INT: ASK FOR THE TIME TAKEN
CE	- Chel Salino	49	TO CHARGE INS. TO INT: NOT REQUIRED TO ASK
N A			FOR THE DURATION OF USAGE UNLESS
l PU	Printer		THERE IS A COMMUNICATION CENTRE
A			ATTACHED TO THE HOUSE OR THERE IS A BUSINESS THAT IS BEING CARRIED
OFFICE APPLIANCES		50	OUT AT THE HOUSE.
변			INS. TO INT: NOT REQUIRED TO ASK
)			FOR THE DURATION OF USAGE UNLESS THERE IS A COMMUNICATION CENTRE
	Scanner		ATTACHED TO THE HOUSE OR THERE IS
		51	A BUSINESS THAT IS BEING CARRIED OUT AT THE HOUSE.
			INS. TO INT: NOT REQUIRED TO ASK
			FOR THE DURATION OF USAGE UNLESS
	Fax machines		THERE IS A COMMUNICATION CENTRE ATTACHED TO THE HOUSE OR THERE IS
		[A BUSINESS THAT IS BEING CARRIED
		52	OUT AT THE HOUSE. INS. TO INT: NOT REQUIRED TO ASK
	Photo Copiers		FOR THE DURATION OF USAGE UNLESS
		53	THERE IS A COMMUNICATION CENTRE

			ATTACHED TO THE HOUSE OR THERE IS
			A BUSINESS THAT IS BEING CARRIED
			OUT AT THE HOUSE.
S	Hair dryer	54	
I AN JESS	Hair iron / hair curlers	55	
HEALTH AND WELLNESS APPLIANCES	Electric shavers	56	INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
= 7 ∢	Electric Exercise Machines	57	
	Roller door	58	PROG: DURATION OF USAGE IS NOT REQUIRED
SECURITY APPLIANCES	CCTV camera systems (note to int.: even if there are more than one camera in the system, please consider as 1 CCTV camera system)	59	PROG: DURATION OF USAGE IS NOT REQUIRED
APPLI	Electric Alarm System	60	PROG: DURATION OF USAGE IS NOT REQUIRED
URITY	Other Electric Security Systems	61	PROG: DURATION OF USAGE IS NOT REQUIRED
SEC	Electric Bell	62	PROG: DURATION OF USAGE IS NOT REQUIRED
IC ES	Electric vehicles (four wheelers) - cars, vans, SUVs)	63	INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
ELECTRIC	Electric vehicles (two wheelers) - Electric bicycles, scooters	64	INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
ELI	Electric vehicles (three wheelers)	65	INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
	Electric Water pump	66	
	Electric Sewing machine	67	
	Oxygen filter for fish tank	68	
	Geyser / Hot water systems for bathrooms which operate from electricity	69	
	Hot tub	70	
	Electric Fountain / decorative waterfall	71	
OTHER APPLIANCES	Emergency Light / re-chargeable torches	72	INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
	Electric heater (to control room temperature)	73	
	Humidifier	74	
	Toys with re-chargeable batteries	75	INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
A A	Other (specify)	76	
H H H	Other (specify)	77	
0	Other (specify)	78	
	Tabs	79	

Module E: Housing Characteristics

INTERVIEWER TO SAY:

Some people think about the ventilation, lighting etc. when building the house. This could have an impact on the electricity usage in the house. Now we would like to ask a few questions regarding the house such as; how it was built, the material used to build the house and the number of rooms etc. Please remember, when we say household, we refer to the area that is covered by the electricity meter.

W1_E.2		
ASK: All Respondents	TYPE: Single Selection	Ref: HIES

What is the main material used to build the outside walls of your house?

INSTRUCTIONS TO INTERVIEWERS: READ OUT THE ANSWERS

INSTRUCTIONS TO INTERVIEWER: If there is more than one material, please mark the material which is used for most part of the outside walls of the house.

- 1. Brick
- 2. Cement Block
- 3. Stones/Cube stones
- 4. Cabook
- 5. Pressed soil blocks
- 6. Cadjan / Palmyra
- 7. Wood / Takaran / Asbestos
- 8. Metal Sheet
- 9. Mud
- 10. Other
- 11. I am not aware of that

W1_E.5		
ASK: All Respondents	TYPE: Fill in	Ref: RECS-Your Home

We would like to know more about the different types of rooms and different sections in your house. When we say house, we mean the area covered by the electricity meter. How many of the following types of rooms are there in your house? If there are rooms or parts of the household that are not directly connected to the house, but is still covered by the same electricity meter such as a separate kitchen or a toilet, please include these as well.

(A room/ section cannot be reported twice. This includes all rooms/ sections (including kitchens, gardens, passages, living rooms and bathrooms) where the aggregation eventually covers the entire house)

If anyone permanently sleeps in the room, account it as a bedroom.

INSTRUCTIONS TO INTERVIEWERS: IF THE STAIRCASE IS INSIDE THE HOUSE, CONSIDER IT AS A PART OF THE HOUSEHOLD (EG.: IF THE STAIRCASE IS ATTACHED TO THE LIVING ROOM, CONSIDER IT AS A PART OF THE LIVING ROOM ETC.). IF THE STAIRCASE IS OUTSIDE THE HOUSE, OR IN A SEPARATE PART OF THE HOUSE, COUNT IT AS A SEPARATE PART.

Living room	
Bedrooms	
Kitchen and/ or pantry / dining room	
Bathroom and / or toilets	
Storage room	
Other rooms / parts in the house including	
passages, veranda's, balconies, staircase etc.	
Garage	
Security Room	

Garden (including the wall around the garden, if any)	
Other rooms outside the house	

W1_E.6: Room Roster

INTERVIEWER TO SAY: We would now like to ask a few detailed questions about the rooms in your household like the number of doors and windows, the roof type etc. We would like to know these details because we want to understand whether there is a relationship between the level of ventilation and the type of roofing material etc. on the electricity consumption. For example, if the room has good ventilation and lighting, i.e.; if there are a number of windows etc., the amount of time that you need to switch on the fans or the lights may be lower. Therefore, we would like to get more details on each of the rooms in your household including the number of light bulbs, fans etc.

I will now go on a room-by-room basis to cover all the above-mentioned rooms.

INSTRUCTIONS TO INTERVIEWER:

The order can be decided by the respondent.

If it is a multi-storied house, ask the respondent to start from the lowest floor

INSTRUCTIONS TO PROGRAMMER:

- ROOM ROSTER TO BE REPEATED FOR THE NUMBER OF ROOMS MENTIONED IN THE ABOVE TABLE. (W1_E.5)
- EACH ROOM SHOULD HAVE A SERIAL NUMBER. SERIAL NUMBER TO BE OF THE FORMAT "ROOM_NUMBER".
- ORDER OF QUESTIONING SHOULD BE AS FOLLOWS:
 - o ASK W1_E.6.a W1_E.6.j FOR ROOM NO. 1
 - ASK THE LIGHT ROSTER FOR ROOM NO. 1 (IF APPLICABLE, I.E.; W1 E.6.; NOT EQUAL TO '0')
 - O ASK W1_E.6.k FOR ROOM NO. 1
 - O ASK THE FAN ROSTER FOR ROOM NO. 1 (IF APPLICABLE, I.E.; W1_E.6.k NOT EQUAL TO '0')
 - O ASK W1_E.6.I FOR ROOM NO. 1
 - O ASK THE AC ROSTER FOR ROOM NO. 1 (IF APPLICABLE, I.E.; W1_E.6.I NOT EQUAL TO '0')
 - REPEAT ABOVE ORDER FOR EACH ROOM

	W1_E.6.a	W1_E.6.	W1_E.6.c_1	W1_E.6.c_2	W1_E.6.d	W1_E.6.e	W1_E.6.f	W1_E. 6.h	W1_E.6.i	W1_E.6.j	W1_E.6.j_1	W1_E.6.k	W1_E.6.l
No	For what purposes do you mainly use this section of the household? 1. Living room 2. Bedrooms 3. Kitchen and/ or pantry/ dining room 4. Bathroom and / or toilets 5. Storage room 6. Gaming room 7. Servant's Room 8. Visitors' room 9. Passage 10. Veranda 11. Balcony 12. Staircase 13. Garage 14. Security Room 15. Garden 16. Other rooms outside the house 17. Study room /Office room 18. Other	In which storey is this section of the househo ld located? (Define ground floor by zero)	What is the main material used for the roof of this section of the household? 1.Tile 2.Asbestos 3.Concrete 4.Metal Sheet 5.Takaran 6.Cadjun/Palmyr a/Straw 7.Tent 8.Plastic sheets 9.Other 10. Garden – Not relevant	What type of ceiling does this section of the household have? INSTRUCTIONS TO INTERVIEWER: SHOWCARD 1. No ceiling, just the roof above 2. A conventional ceiling 3. A beamed ceiling 4. A hanging ceiling 5. A polythene cover as a ceiling 6. No ceiling, the concrete slab 7. Wooden ceiling 8. Other 9. Garden – Not relevant	What is the main material used for the floor of this section of the household?? 1.Cement 2.Teraso 3.Tile 4.Granite 5.Wood (finished) 6.Mud 7.Wood 8.Sand 9.Concrete 10.Other 11. Garden – Not relevant	How many doors are there in this part of the house that let in light and air from the outside? That is, how many doors are there that let in light and air into the room from an external environment such as a garden, a balcony or a veranda? INST. TO INT: RECORD THE NUMBER OF DOORS THAT OPENS TO OUTSIDE. IF THERE ARE NO DOORS THAT OPENS TO OUTSIDE, RECORD AS '0' PROG: KEEP SPACE TO RECORD NUMBER OF DOORS. ACCEPT ONLY INTEGER NUMBERS.	How many windows are there in this part of the house that let in light and air from the outside? That is, how many windows are there that let in light and air into the room from an external environment such as a garden, a balcony or a veranda? INST. TO INT: RECORD THE NUMBER OF WINDOWS. IF THERE ARE NO WINDOWS, RECORD AS '0' PROG: KEEP SPACE TO RECORD NUMBER OF WINDOWS. ACCEPT ONLY INTEGER NUMBERS.	ASK ONLY IF W1_E. 6.f > 0 Do you have curtain s or blinds for the windo ws? 1.Yes 0.No 3. Garde n - Not releva nt	Does this section of the household have natural ventilation other than windows, to allow fresh air circulation? This could be a ventilation hole in the wall or an area with a grill on top of the windows which is not covered by the windowpane etc. (SHOWCARD) 1.Yes 0.No 3. Garden – Not relevant	How many light bulbs do you have in this section of the household? Please include the roof lights and wall lights when counting the number of lights. If there are lamp shades etc. which has more than one bulb, but all bulbs switch on with one common switch, please count as one light. Also, if there are table lamps, bed side lamps, lamp shades etc. in this part of the household, please include them as well. IF BATHROOM/ TOILET: INT. TO PROBE – Are there any mirror lights? IF GARDEN: INT. TO PROBE – Are there any garden lights or lights on the wall (thaappaya)? PROG: KEEP SPACE TO RECORD NUMBER OF LIGHTS. ACCEPT ONLY INTEGER NUMBERS	PROG: ASK ONLY IF W1_E.6.j >0 And how many of these bulbs did you use in the last week? PROG: KEEP SPACE TO RECORD NUMBER OF LIGHTS. ACCEPT ONLY INTEGER NUMBERS INS. TO PROG: IF NO. OF LIGHTS NOT EQUAL TO ZERO, REPEAT THE FOLLOWING LIGHT ROSTER FOR NUMBER OF LIGHTS.	How many fans do you have in this section of the household? Please include all types of fans such as ceiling fans, pedestal fans, table fans, exhaust fans, tower fans etc. PROG: KEEP SPACE TO RECORD NUMBER OF FANS. ACCEPT ONLY INTEGER NUMBERS INS. TO PROG: IF NO. OF FANS NOT EQUAL TO ZERO, REPEAT THE FOLLOWING FAN ROSTER FOR NUMBER OF FANS	How many ACs do you have in this section of the household? PROG: KEEP SPACE TO RECORD NUMBER OF ACS. ACCEPT ONLY INTEGER NUMBERS INS. TO PROG: IF NO. OF ACS NOT EQUAL TO ZERO, REPEAT THE FOLLOWING AC ROSTER FOR NUMBER ACS.
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Light Roster

U				
	W1_E.6. n	W1_E.6. o	W1_E.6. p	W1_E.6. q
No	What is the type of the light Bulb out of following? INST. TO INT: If the respondent is not sure whether the light bulb is a CFL or an LED, please code it as CFL (SHOWCARD) 1.Incandescent 2.CFL 3.LED 4.Halogen 5.Tube Light (conventional) 6.Tube Light (LED) 7.Flashlight 8.Flood light 9. Other	What is the wattage (W) of the light? INST. TO INT: If there are lamp shades etc. which has more than one bulb, but all bulbs switches on with one common switch, please add up the wattage of all the bulbs and record below. INS. TO INT.: IF THE RESPONDENT DOES NOT KNOW THE WATTAGE, PLEASE MARK AS "0". Í	For how many hours was this light kept switched on last week during daytime. (8am – 6pm)? INSTRUCTIONS TO INT.: PROBE FOR WEEKDAYS AND WEEKENDS SEPARATELY (INSTRUCTIONS TO PROG: VALUE NEEDS TO BE BETWEEN 0 – 70. SHOULD ALLOW DECIMALS) INSTRUCTIONS TO INT.: Please use the following – 15 min = 0.25 hrs 20 min = 0.33 hrs 30 min = 0.5 hrs 40 min = 0.66 hrs 45 min = 0.75 hrs 60 min = 1 hr Total number of hours per day from 8am – 6pm = 10 hrs If used every day from 8am-6pm = 70 hrs	For how many hours was this light kept switched on, during last week during night-time. (6pm- – 8am)? INSTRUCTIONS TO INT.: PROBE FOR WEEKDAYS AND WEEKENDS SEPARATELY (INSTRUCTIONS TO PROG: VALUE NEEDS TO BE BETWEEN 0 – 98. SHOULD ALLOW DECIMALS) INSTRUCTIONS TO INT.: Please use the following – 15 min = 0.25 hrs 20 min = 0.33 hrs 30 min = 0.56 hrs 40 min = 0.66 hrs 45 min = 0.75 hrs 60 min = 1 hr Total number of hours per day from 6pm – 8am = 14 hrs If used every day from 6pm – 8am = 98 hrs
l				

Fan Roster

W1_E.6.r	W1_E.6.s	W1_E.6.t
No What is the type of the fan? (SHOWCARD) 1.Ceiling fan 2.Wall fan 3.Pedestal fan/ Stand fan 4.Table fan 5.Exhaust fan 6.Tower fan 7.Other	For how many hours was this fan kept switched on last week during daytime. (8am – 6pm)? INSTRUCTIONS TO INT.: PROBE FOR WEEKDAYS AND WEEKENDS SEPARATELY (INSTRUCTIONS TO PROG: VALUE NEEDS TO BE BETWEEN 0 – 70. SHOULD ALLOW DECIMALS) INSTRUCTIONS TO INT.: Please use the following – 15 min = 0.25 hrs 20 min = 0.33 hrs 30 min = 0.5 hrs 40 min = 0.66 hrs 45 min = 0.75 hrs 60 min = 1 hr Total number of hours per day from 8am – 6pm = 10 hrs If used every day from 8am-6pm = 70 hrs	For how many hours was this fan kept switched on last week during night-time. (6pm – 8am)? INSTRUCTIONS TO INT.: PROBE FOR WEEKDAYS AND WEEKENDS SEPARATELY (INSTRUCTIONS TO PROG: VALUE NEEDS TO BE BETWEEN 0 – 98. SHOULD ALLOW DECIMALS) INSTRUCTIONS TO INT.: Please use the following – 15 min = 0.25 hrs 20 min = 0.23 hrs 30 min = 0.5 hrs 40 min = 0.66 hrs 45 min = 0.75 hrs 60 min = 1 hr Total number of hours per day from 6pm – 8am = 14 hrs If used every day from 6pm – 8am = 98 hrs

AC Roster

W1_E.7		
ASK: All Respondents	TYPE: Single Selection	
Are there any other parts of t	he household which are covered by	the same electricity meter which
were not covered above?		
1. Yes → INST. TO PROG	GO TO W1_E.7a	
$0. \text{ No} \rightarrow \text{INST. TO PROG}$:	GO TO W1 E.8	

W1_E.7a		
ASK: Ask if W1_E.7 = 1	TYPE: Fill in	Ref: RECS-Your Home
	rts of the house you have missed	<u> </u>
mention only the parts you have	missed and to which, electricity	is supplied from the same
electricity meter.		
INST. TO INT: PLEASE STATE ON	LY THE NUMBER OF ROOMS/ PA	RTS OF THE HOUSEHOLD WHICH
WERE MISSED BY THE RESPOND	ENT EARLIER.	
Living room		
Bedrooms		
Kitchen and/ or pantry / dining re	oom	
Bathroom and / or toilets		
Storage room		
Other rooms / parts in the house	e including passages, veranda's, b	alconies, staircase etc.

Garage	
Security Room	
Garden (including the wall around the garden, if any)	
Other rooms outside the house	

INTERVIEWER TO SAY: Now I'd like to ask you the details about these parts of the household.

INST. TO PROG: REPEAT THE HOUSEHOLD ROSTER (W1_E.6.a - W1_E.6. z) FOR THE TOTAL NUMBER OF ROOMS IN W1_E.7a

W1_E.8		
ASK: All Respondents	TYPE: Single Selection	
Are there any constructions or	renovations happening in this hous	ehold currently?
1. Yes		
0. No		

MODULE E-2: OTHER METHODS OF GENERATING ELECTRICITY AND BACKUP ELECTRICITY

INTERVIEWER TO SAY:

Now I would like to know a few details about other methods that you may be using to generate electricity at your household. As we are interested in the electricity consumption of your household, it is also important for us to know whether you use electricity from the LECO supply only or whether there are any other methods that you use at your household to generate electricity such as generators and solar panels.

W1_E.10		
ASK: All Respondents	TYPE: Single Selection	Ref: RECS – Energy Bills
Does your household have a ba	ckup generator to generate electr	icity if needed?
1.Yes		
2.No		

W1_E.1	11		
ASK: Al	l Respondents	TYPE: Single Selection	
Apart f	rom the electricity that	you get from the national grid	and the back-up generator, do you
use any	other methods for ger	nerating electricity at your hou	sehold? If so, what methods?
INST. T	O INT.: READ OUT THE	BELOW LIST OF METHODS	
1.	Solar Energy	Yes − 1, No − 2	
2.	Bioenergy	Yes − 1, No − 2	
3.	Mini Hydropower	Yes − 1, No − 2	
4.	Wind Power	Yes − 1, No − 2	
5.	Other	Yes − 1, No − 2	

W1_E.13		
ASK: If W1_E.11_Solar Energy = 1	TYPE: Single Selection	

Is your solar system on-grid or off-grid?

- 1. On-grid
- 2. Off-grid

W1 E.14

ASK: If W1_E.11_Solar Energy = 1 | TYPE: Single Selection

Do you have an inverter for the solar energy generation system? An inverter is a device that converts direct current (DC) electricity, which is what a solar panel generates, to alternating current (AC) electricity, which the electrical grid uses.

- 1. Yes
- 0. No

W1 E.15

ASK: If W1 E.13 = 2

TYPE: Multiple Selection

Which of the following purposes do you use solar energy in your house?

- 0. Cooking
- 1. Water heating
 - 3 Outdoor lighting
 - 4 Car charging
 - 5 Agriculture equipment and systems (irrigation systems, etc)
 - 6 All the above
 - 7 Other

W1_E.15a

ASK: If W1_E.11_Solar Energy = 1 | TYPE: Single Selection

Are you aware of the number of units generated by the solar energy system in the last one month?

- 1. Yes
- 0. No

W1 E.1	5	b
--------	---	---

ASK: W1_E.15a=1

TYPE: Fill in

How many units did the solar system generate last month?

No. of units:

W1 E.16

ASK: If W1 E.11 Solar Energy = 1 TYPE: Single Selection

When did you start using solar for electricity generation? Was it before November 2022 or after November 2022?

- 1. Before November 2022
 - 0. After November 2022

W1_E.17		
ASK: All Respondents	TYPE: Single Selection	

Do you have a system to backup / store electricity to be used in case of a power cut? This could be a battery with an inverter where you can use the normal lights and appliances of the full household or a part of the household from the electricity stored in the battery? Please note that what we are referring to here is not the emergency lights.

- 1. Yes
- 0. No

Module F: Water Heating INTERVIEWER TO SAY:

Water heating is one of the few key activities that all households do using different types of energy sources. Therefore, I'd like to ask you a few questions regarding the water heating habits of your household.

W1_F.1		
ASK: All Respondents	TYPE: Single Selection	

How does your household receive water?

- 1. Protected well.
- 2. Unprotected well.
- 3. Tube well
- 4. Tap Water (National Water Supply and drainage board)
- 5. Tap Water (Community-based water supply and management organization)
- 6. Tap Water (Local Government Organizations)
- 7. Tap Water (Private Water Projects)
- 8. River/ Tank/ Streams
- 9. Rainwater
- 10. Bottled water
- 11. Bowser
- 12. Other

W1_F.2		
ASK: All Respondents	TYPE: Single Selection	

In the case of using hot water for bathing or having a body wash, what would you or any of the household members mostly do?

- 0. We have an in-built water heating system powered solely by the grid supply.
- 1. We have an in-built water heating system powered solely by solar energy.
 - 3. We have an in-built water heating system powered both by solar and the grid supply.
 - 4. We have a water heating system powered by a different source.

- 5. We don't have an inbuilt system for water heating, we use heated water through an electric kettle/heater.
- 6. We don't have an inbuilt system for water heating, we use water heated by means such as gas, firewood etc. (other than electric kettle, electric water heater or water heated using any other electrical appliance).
- 7. None, we do not use hot water for bathing or body wash purposes

W1_F.3			
ASK: if W1_F.2 = 1, 2, 3 or 4	TYPE: Single Selection	Ref: RECS – Water Heating	
Does your water heating equipment serve other housing units?			
1. Yes			
0. No			

W1_F.4		
ASK: IF W1_F.2 not equal to 7	TYPE: Single Selection	
Did any of your household mem	bers use hot water for bathing in t	the last week?
1. Yes		
0. No		

W1_F.5		
ASK: All Respondents	TYPE: Single Selection	
Do you normally boil water before drinking?		
1. Yes		
0. No		

W1_F.6		
ASK: If W1_F.5 = 1	TYPE: Multiple Selection	

What source of energy is used to boil water for drinking?

- 1. Gas
- 2. Electricity (directly from the national grid)
- 3. Electricity (generated from solar energy system)
- 4. Firewood
- 5. Kerosene
- 6. Saw dust/ Paddy husk.
- 7. Biogas
- 8. Coconut shells/charcoal
- 9. Other

Module G: Cooking

INTERVIEWER TO SAY:

Cooking is also a key activity that all households do using different types of energy sources. Therefore, I'd like to ask you a few questions regarding the cooking habits of your household.

W1_G.1		
ASK: All Respondents	TYPE: Single Selection	Ref: RECS – Appliances

How many times did you cook meals at home last week?

- 1. Did not cook at home last week
- 2. 1-7 times
- 3. 8 14 times
- 4. 15 21 times
- 5. More than 21 times

W1 G	١.	2
------	----	---

ASK: All Respondents TYPE: Multiple Selection

What sources of energy does your house use for cooking?

- Gas
- 2. Electricity (directly from the national grid)
- 3. Electricity (generated from solar energy system)
- 4. Firewood
- 5. Kerosene
- 6. Saw dust/ Paddy husk.
- 7. Biogas
- 8. Coconut shells/charcoal
- 9. Other

Module H: SEC and monthly expenditure

In this final section, I am going to ask you a couple of questions regarding education and the occupation of the chief wage earner of your household and the household expenses. The objective of these questions is to classify respondents and look at the data among different categories of respondents.

W	1	Н	1
٧v	1	п	J

ASK: All Respondents TYPE: Single Selection

Could you also tell me the highest level of education attained by the chief wage earner in your household? By chief wage earner, I mean the person who contributes most to the household expenses.

- 1. Illiterate
- 2. Primary Education
- 3. Schooling upto Grade 6 9
- 4. O/L or A/L pending / Passed
- 5. Diploma with O/L or A/L (Non graduate)
- 6. Other professional certificates with O/L or A/L / Part qualification (Non graduate)
- 7. Graduate /Post-Grads/ Degree level professional qualification

W1 H.2

ASK: All Respondents TYPE: Single Selection

What is the Occupation of the Chief Wage Earner in your house?

- 1. Unskilled Worker
- 2. Skilled Worker
- 3. Clerk / Salesman grades
- 4. Supervisor grades

- 5. Junior executive / Executive
- 6. Middle and Senior executive
- 7. Manager / Professional
- 8. Small Businessman / Self-employed (Non-professional)
- 9. Boutique owner
- 10. Self-employed (Professional) No employees
- 11. 1-9 Employed
- 12. 10+ Employed.
- 13. Agricultural labourer / Worker
- 14. Tenant cultivator
- 15. Farmer owning Less than ½ Acre.
- 16. Farmer owning ½ 1 / Acre.
- 17. Farmer owning 1 2 / Acre.
- 18. Farmer owning 2 5 / Acre.
- 19. Farmer owning Over 5 acres / Landed proprietor

W1_H.3		
PROG. INST.: DO NOT ASK.	TYPE: Single Selection	
PLEASE CODE THE SEC BASED		
ON THE EDUCATION AND THE		
OCCUPATION OF THE CHIEF		
WAGE EARNER. (PLEASE TAKE		
THE EDUCATION AND THE		
OCCUPATION OF THE CHIEF		
WAGE EARNER FROM THE		
DEMOGRAPHICS ROSTER).		
DISPLAY THE SEC BELOW.		
SEC.		
1. SEC A		
2. SEC B		
3. SEC C		
4. SEC D		
5. SEC E		

W1_H.4	L_H.4	
ASK: All Respondents	TYPE: Fill in	
•	your household in the last month	
you or your household members you'll bought from outside, you a products such as soaps, shampo	d. Please include all types of expension bought such as rice, coconut, chand your household members' spector, toothpaste etc., expenses on last on travelling, on education such acc.	illies, sugar, prepared food that ending on personal care undry products such as washing
HH Expenses for last month:		

W	1	Н	.5

As you know, we are doing this study regarding the electricity consumption. Therefore, can you please tell me what type of electricity meter do you have at home? Is it a smart meter or a non-smart meter?

- 1. Smart meter
- 2. Non smart meter

Module K: Additional questions

INTERVIEWER TO SAY:

Now we would like to ask you a few questions regarding an electricity supply management mechanism. In this card, we have a description of an electricity supply management mechanism used by a lot of countries to ensure uninterrupted power supply for the country.

W1_K.1		
ASK: All Respondents	TYPE: Single Selection	

INSTRUCTIONS TO INTERVIEWERS: SHOWCARD AND READ OUT

Demand response is a widely adopted strategy in numerous countries, aiming to adjust the electricity consumption of non-essential loads among consumers to align with demand, allowing for the flexible scheduling of activities such as running appliances like washing machines or irons during specified intervals set by the electricity provider (LECO). Alternatively, LECO may manage certain non-essential loads, such as air conditioners, providing the capability to remotely control these devices. This approach offers benefits for both individual consumers and the overall well-being of the country.

If LECO initiate a demand response programme as described above, would you consider participating in it?

- 1. Yes, I will participate voluntarily → GO TO W1_K.3
- 2. Yes, I will participate only if it provides me a financial benefit (like reducing my electricity bill) → GO TO MODULE J
- 3. No, I will not participate → GO TO W1_K.2

11/1		
W1_K.2		
ASK: IF W1 K.1 = 3	TYPE: Multiple coding	

Why will you not consider participating in such a programme?

- 1. I don't have any non-essential loads.
- 2. I prefer not to have any devices plugged into my house.
- 3. I don't want LECO to control my consumption.
- 4. Other (specify)

W1_K.3		
ASK: IF W1_K.1 = 1	TYPE: Multiple coding	

Why would you consider participating in such a programme?

- 1. It will provide the load controllability.
- 2. It will provide more visibility on electricity usage.
- 3. It will be beneficial to the country.
- 4. Other (specify)
- 5. It will reduce my electricity bill

Module J: Information on re-contacting

W1_J.1a		
ASK: All Respondents TYPE: Fill in		
As a part of our quality control process, we may have to re-contact you which will not take more than 5 minutes. Can you please share a contact number on which we can contact you?		
Name of respondent: Address of respondent:		

W1_J.1		
PROG. INST.: DISPLAY THE LIST	TYPE: Single Selection	
OF HOUSEHOLD MEMBERS		
INST. TO INTERVIEWER: DO		
NOT ASK. CODE THE NAME OF		
THE RESPONDENT		
Name of respondent:		

W1_J.2			
	ASK: All Respondents	TYPE: Single Selection	

Is it ok if we take a photograph of the household?

- 1. Yes → PROG. INSTRUCTIONS ALLOW THE INTERVIEWER TO TAKE A PHOTOGRAPH OF THE HOUSEHOLD.
- 0. No \rightarrow INS. TO PROG: GO TO W1_J.3.

W1_J.3		
ASK: All Respondents	TYPE: Single Selection	
Diagon and the injector investors?		

Please code the in interview status?

- 1. Completed.
- 2. Not completed

Contact no. of respondent.:

3. Discarded

W1_J.4		
ASK: All Respondents	TYPE: Single Selection	
Replacement?		
 Yes → GO TO J.5 		
$0 \text{ No } \rightarrow \text{GO TO } 16$		

J.5		
ASK: IF W1_J4 = 1	TYPE: Single Selection	

Reason for replacement?

- 1. Household respondent refused.
- 2. Incomplete
- 3. Discarded due to errors.
- 4. Household locked

۱۸/1	- 1	6
A A T		

INSTRUCTIONS TO	TYPE: Multiple Selection	
PROGRAMMER: DISPLAY FOR		
ALL RESPONDENTS		

INSTRUCTIONS TO INTERVIEWERS: DO NOT ASK. RECORD.

Language that interview was conducted in

INSTRUCTIONS TO INT.: Select all languages in which the interview was conducted. This includes instances where substantive parts of the questionnaire have been verbally translated into a local language to be better understood by the respondent. More than 1 language can be selected.

- 1. Sinhala
- 2. Tamil

W1_J.7		
ASK: RECORD FOR ALL	TYPE: RECORD	
RESPONDENTS		
Record the GPS of the location.		

INTERVIEWER TO SAY: This is the end of this survey. Thank you for all the information given by you. Also, as mentioned at the beginning of the survey, there will be two more rounds of interviews. The next round will be in <MENTION MONTH>. We will contact you beforehand to book a time with you. Thank you.

WAVE 2 QUESTIONNAIRE

Module A: Geographic and Related Information

This module is designed to collect information about the location and geographic attributes of the household and is not intended to be posed as questions to the participants.

A.1		
Do not ask. Interviewer to	TYPE: Fill in	
enter the unique ID of the		
customer and the rest of the		
information to be auto filled		
from the LECO database		

a) Unique ID of LECO customer (to be entered by the interviewer)

INSTRUCTIONS TO PROGRAMMER: THE FOLLOWING INFORMATION TO BE AUTO-CODED BASED ON THE LECO CUSTOMER DATABASE AND THE UNIQUE NUMBER ENTERED BY THE INTERVIEWER

- b) Province (to be auto coded from the LECO database)
- c) District
- d) LECO Branch
- e) LECO CSC area
- f) Meter type

Module SC: Screener

Introduction

INSTRUCTIONS TO INTERVIEWERS:

ASK TO SPEAK TO THE SAME PERSON TO WHOM WE SPOKE IN WAVE 1. IF HE / SHE IS NOT AVAILABLE, CONTACT THE SECOND-MOST KNOWLEDGEABLE PERSON REGARDING HOUSEHOLD DETAILS.

IF BOTH ARE NOT AVAILABLE, THE HOUSE SHOULD BE REVISITED AT A LATER TIME (THE TIME OF DAY BEING DIFFERENT TO THE TIME THAT THE FIRST VISIT WAS MADE; INQUIRE FROM OTHER MEMBERS AS TO THE TIME THE RELEVANT PERSON WILL BE HOME. A MINIMUM OF THREE ATTEMPTS TO REACH THIS PERSON SHOULD BE MADE.

INTERVIEWER TO READ:

Hello, my name is ______, I am from ____. A few months back, we conducted a survey with you regarding electricity consumption. As mentioned to you, there are three waves for this survey. We would like to conduct the second interview today.

This study is conducted together with LIRNEasia, another research organization and LECO has partnered with LIRNEasia for this survey.

W2_Sc.0		
ASK: All Respondents	TYPE: Single Selection	Ref: RECS-Your Home
Is this premises used as a household or for a business / commercial purposes?		
INT. INSTRUCTIONS: If used as both household and for business purposes, mark as household		
and proceed.		

3. Household à PROG. INS: CONTINUE

4. Business purposes à PROG. INS: TERMINATE

W2_SC.1a		
DO NOT ASK. RECORD BELOW	TYPE: Single Selection	
	1	

Are you talking to the same respondent as in wave 1 or is it a different member of the household?

- 1. Same respondent as in wave 1
- 0. A different respondent compared to wave 1

W2_SC.1b		
PROG. INST.: DISPLAY THE LIST OF	TYPE: Single	
HOUSEHOLD MEMBERS	Selection	
INST. TO INTERVIEWER: CODE THE NAME		
OF THE RESPONDENT		
Name of respondent:		

W1_Sc.2		
ASK: IF W2_SC.1a = 0	TYPE: Single Selection	

Are you able to accurately tell me about the details related to the household?

- 2. Yes
- 0. No à INT. INSTRUCTIONS: seek out suitable respondent (the respondent who was interviewed in W1); if not available, inquire as to when he/ she will be available and revisit at that time. Make at least 3 attempts to meet the respondent.

W2_Sc.3	
ASK: All Respondents TYPE: Si	le Selection
Record number of attempts that have been made to meet with this household respondent. 1. 1 st Attempt 2. 2 nd Attempt 3. 3 rd Attempt	

Module CS: Consent form

As mentioned, we are conducting this survey among LECO customers on their electricity consumption habits and usage. As we mentioned in the previous time we met, this survey consists of three rounds where we will conduct three interviews with you. This is the second interview.

If you agree, we would like to ask you some questions regarding your household and the electricity consumption at your household. This will take about 60-90 minutes in total.

If you choose to participate, please be assured that all the information given by you will be kept totally confidential. This information will be combined with similar information from thousands of other people in to look at the average behavior across society. There are no obvious physical, legal, or economic risks associated with participating in this study because your information will not be used in an identifiable manner.

Further, based on your consent, LECO will provide your past electricity consumption data to LIRNEasia.

Participation in this survey is voluntary. You may decline from answering any question at any time. You may also ask questions at any time. You may terminate your participation at any time. However, we hope that you will take part in this survey since your participation is important.

W2_Cs.1		
ASK: All Respondents	TYPE: Single Selection	
Do you consent to participate in this study and to provide your data to LIRNEasia?		
2. Yes		
0. No à TERMINATE .		

W2_Cs.2			
ASK: Al	l Respondents	TYPE: Single Selection	
May we audio record some parts of this interview for quality checking purposes?			
2.	Yes		
0.	No		

Module EM: Electricity Meter Details

INTERVIEWER TO SAY: First, we would like to know whether there have been any changes to your household; i.e., the structure and the ownership of the household and the number of electricity meters.

W2_EM.1			
ASK: All Respondents	TYPE: Single Selection	Ref: RECS-Your Home	
Have you obtained any new electricity meter/s since we did the last survey?			
1.Yes à GO TO W2_EM.2			
0.No à INST. TO PROGRAMMER: DISPLAY DEFINITION OF HOUSEHOLD			

W2_EM.2		
ASK: If W2_EM.1 = 1	TYPE: Fill in	
Please tell me how many electricity meters are there in your house now?		
No. of electricity meters: INST. TO PROGRAMMER: DISPLAY DEFINITION OF HOUSEHOLD		

DEFINITION OF HOUSEHOLD

INTERVIEWER TO SAY: As in the last time, for the purpose of this survey, we are defining the house as the area covered by the electricity meter. Therefore, when answering the questions, please consider only the household area that is covered by the electricity meter which is billed to the address _____ (**PROG: TO DISPLAY THE ADDRESS OF THE HOUSEHOLD**). Please consider all areas such as living rooms, bedrooms, kitchen, washrooms, toilet etc. including the garden areas which are covered by this meter. However, if there are areas

within the household which are covered by any other electricity meters, please do not consider these parts of the household when answering these questions. For example, if there is a room in the household that is covered by another electricity meter or if the upstairs of the house is covered by a separate electricity meter, please do not consider these areas when answering the questions.

٧	V2	В	1

ASK: All Respondents	TYPE: Single Selection	Ref: RECS-Your Home

Do you or any member of your household own this house or are you living on rent?

- 1. Yes, I or a household member owns it.
- 2. No, I am living on rent and the rent is paid by me or a household member.
- 3. No, I am living on rent and the rent is paid by the employer.
- 4. No, I or any household member does not own or rent this household. We occupy this household without any payment of rent.

W2 C.3

ASK: IF W2 B.1 = 1	TYPE: Single Selection

Do you occupy any of the following people in your house? By house, we mean the area covered by your electricity meter.

- 1. Renters / boarders who are living in your annexe or any other attached place, maintaining separate living conditions but share the same electricity meter.
- 2. Boarders who live in your house using a room/s that is attached to your living conditions.
- 3. I don't occupy any of the above.

W2 C.3b

ASK: IF W2_C.3 = 1 OR 2 TYPE: Single Selection

You said that there are renters / boarders who are living in this house. Can you please tell me whether they were living in this house when we did the 1st interview or did they start living here afterwards?

- 1. They were living in this household when the 1st interview was done
- 2. They started living in this household after the 1st interview was done
- 3. Some were there when the first interview was done, but there are some who are new

W2_C.3c

ASK: IF W2_C.3b = 2 OR 3 TYPE: Multiple Selection

Since when did the new renters / boarder(s) start living in this household?

1. December 2023 5. April 2024 2. January 2024 6. May 2024 3. February 2024 7. June 2024 4. March 2024 8. July 2024

L	•	J

Which of the following best describes your awareness of the electricity consumption of renters/boarding people? Are you aware of details such as the appliances they use and the number of hours they use each appliance, the times they keep the lights and fans switched on etc.?

4. I know all the details about the electricity consumption of the renters/ boarders; i.e.; the appliances they use and the number of hours they use each appliance, the times they keep the lights and fans switched on etc.

- 5. I know some details about the electricity consumption of the renters/ boarders; i.e.; the appliances they use and the number of hours they use each appliance, the times they keep the lights and fans switched on etc.
- 6. I do not know any details about the electricity consumption of the renters/ boarders; i.e.; the appliances they use and the number of hours they use each appliance, the times they keep the lights and fans switched on etc.

Module B: Changes in housing ownership and structure

W2_B.5a		
ASK ALL	TYPE: Single Selection	

Has there being any structural changes to your household after we did the 1st interview with you? By household, we mean the area covered by your electricity meter. i.e.; have there being any additions to the house such as adding a new part to the household like a room etc. or completing a section which was being built at the time we did the first interview or added a new floor etc.? or, have there been any parts of the household which were dismantled?

- 1. Yes, new parts were added only
- 2. Yes, some parts were dismantled only
- 3. Yes, some new parts were added to the household and some parts were dismantled
- 4. No structural changes were done to the household

W2_B.5b		
ASK ALL	TYPE: Single Selection	
Were there any renovations done after we did the 1st interview with you?		
1. Yes		
2. No		

W2_B.5 (SHOWCARD)			
ASK: If W2_B.5a = 1, 2 OR 3	TYPE: Single Selection	Ref: HIES	
Which of these best describes	vour house now?		

- 11. Single House Single Floor
- 12. Single House Double Floor
- 13. Single House More than 2 floors
- 14. Attached house / Annex.
- 15. Flat
- 16. Condominium/ Luxury apartments
- 17. Twin houses
- 18. Line room/row house
- 19. Slum / Shanty
- 20. Other

W2_B.7		
ASK: If (W2_B.5a = 1, 2 OR 3) AND	TYPE: Fill in	Ref: RECS-Your Home
(W2_B.5 not equal to 1 or 2)		

How many storeys does your house have?

INSTRUCTIONS TO INTERVIEWERS: If the household type is a flat or a luxury apartment, please consider the number of floors the respondent's unit occupies. For example, if the respondent's unit is located on the 3rd floor but occupies only one floor (i.e.; does not have any connection to an upper floor), then it will be a one storey house. However, if the respondent's unit is located on

the 3rd floor and has two floors (i.e.; is connected to the floor above from an internal staircase), then it will be considered as a two storey house.

No. of storeys:

PROG INS: ONLY INTEGER VALUES CAN BE ACCEPTED

W2_B.8		
ASK: If W2_B.5a = 1, 2 OR 3	TYPE: Fill in	Ref: RECS-Your Home

Can you please tell me what is the floor area of this household now? i.e.; how many square feet does this household cover? Please remember, when we say household, what we mean is the parts of the household that is covered by the electricity meter.

INSTRUCTIONS TO INTERVIEWERS: If the respondent is not able to state the floor area of the house, prompt him/ her by asking for the length and width of the household.

State the area of your house in square feet.:

W2_B.9		
ASK: IF W2_B.1 = 1	TYPE: Single Selection	

You mentioned that you or a household member owns this house. Can you please tell me whether you'll built this house or whether you'll purchased it?

- 1. Built the house
- 2. Purchased the house

W2_B.10				
ASK: IF W2_B.9 = 1	TYPE: Multiple selection			
When you built this house, did you consider any of the following?				
1. Natural lighting	Yes – 1, No - 0			
2. Good ventilation	Yes − 1, No − 0			
3. Use of insulation materia	Yes – 1, No - 0			

Module C: Demographics Changes

INTERVIEWER TO SAY: Now we would like to know whether there have been any changes to your household member composition, i.e., whether there has been any changes to the members living in the household.

140 04 (DDF)				
W2_C.1a (PRELOAD)				
ASK: All Respondents	TYPE: Single selection for each row	Ref: RECS-Your Home		
During the last interview we had with you in < PROGRAMMER INSTRUCTIONS: MENTION THE				
MONTH WHEN FIELDWORK WAS CONDUCTED FOR WAVE 1>, you mentioned that there are				
<instructions from<="" household="" members="" number="" of="" pre-load="" programmer:="" th="" the="" to=""></instructions>				
WAVE 1 – W1_C.1> members living in the household. Can you please tell me whether there are any				
changes in the composition of members living in the household? i.e.; whether these members are				
still living in this household or whether they have moved out and hence, are not staying here				

anymore? If they are temporarily living abroad or living in some other part of Sri Lanka, please consider them as living in the household. Also, if there are any boarders or those who are living on rent or if you have any maids/ housekeepers staying in this household, please include them as well.

INTERVIEWER INSTRUCTIONS: PLEASE MARK WHETHER THE HOUSEHOLD MEMBER IS STILL LIVING IN THE HOUSEHOLD OR NOT.

INSTRUCTIONS TO	O PROGRAMMER: PRE-LOAD THE I	DATA FOR W2_C1.1,	
W2_C1.2 AND W2	2_C1.3 FROM THE HOUSEHOLD ME		
W2_C1.1	W2_C1.2	W2_C1.3	W2_C1.4
(INSTRUCTIONS	(INSTRUCTIONS TO	(INSTRUCTIONS TO	(INSTRUCTIONS TO
TO	PROGRAMMER: PRE-LOAD	PROGRAMMER: TO BE	PROGRAMMER: THIS COLUMN
PROGRAMMER:	FROM W1_C.2.a, W1_C.2.c AND	PRE-CODED AS 'YES').	SHOULD BE KEPT AS A SINGLE
PRE-LOAD	W1_C.2.d.1 IN W1		CODE QUESTION FOR THE
FROM W1).	QUESTIONNAIRE).		INTERVIEWER TO MARK YES
			OR NO).
Member no.	Name of the member, Gender,	Present in Wave 1	Still living in the household
	Year of birth, Age		
M1	<name> - <gender> - <yob> -</yob></gender></name>	Yes	1. Yes 0. No
	<age></age>		
M2	<name> - <gender> - <yob> -</yob></gender></name>	Yes	1. Yes 0. No
	<age></age>		
M3	<name> - <gender> - <yob> -</yob></gender></name>	Yes	1. Yes 0. No
	<age></age>		
M4	<name> - <gender> - <yob> -</yob></gender></name>	Yes	1. Yes 0. No
	<age></age>		

W2_C.1					
ASK: All Respondents	TYPE: Fill in	Ref: RECS-Your Home			
Apart from the above-mentioned members, are there any others who are currently living in the household? It could be someone who has come back from abroad or any new additions? It could also be a boarder or a domestic help who has started living in the household after <mention 1="" conducted="" fieldwork="" for="" month="" was="" wave="" when="">? If so, how many such members are there?</mention>					
Please specify the number of new members.: INSTRUCTIONS TO INTERVIEWER: If there are no new members, enter '0' PROG INS: ONLY INTEGER VALUES CAN BE ACCEPTED					

W2_C.2: DEMOGRAPHIC ROSTER

INSTRUCTIONS TO PROGRAMMER: REPEAT THE DEMOGRAPHIC ROSTER INTO NO. OF NEW FAMILY MEMBERS TIMES. (I.E., NUMBER OF MEMBERS STATED IN W2_C.1)

INTERVIEWER TO SAY: Now I would like to know a few details about the members who were not there when we did the first interview, but have started living in this household afterwards.

	W2_ C.2.	W2_C.2.b	W2_C .2.c	W2 _C.2	W2_C.2 . d.1	W2_C.2.e	W2_C.2.f	W2_C.2.g	W2_C.2.h	W2_C.2.i	W2_C.2.j	(ASK IF C.2.j =	ECONOMICA	LLV ACTIVE	W2_C.2.n
	a a		.2.0	_c.2	. u.1							(A3K II C.2.) -	LCONOMICA	ILLI ACTIVE	
												W2 C2 b	W2 C21	W/2 C 2	
												W2_C.2.k	W2_C.2.I	W2_C.2. m	
No	Nam e of the me mbe r INST RUC TIO NS TO INT. : Plea se ente	Relationshi p to the head of the household. (SINGLE ANSWER) 1. Head of the household 2. Wife/Husba nd 3. Son/daught er	Gend er (SING LE ANS WER) 1. Male 2.Fem ale 3.Oth er	Year of birt h TO BE FILL ED IN	Age (PROG: THIS SHOUL D NOT BE ASKED. TO BE CALCUL ATED BASED ON THE YEAR OF BIRTH AND DISPLA	Ethnicity (SINGLE ANSWER) 1.Sinhala 2.Sri Lankan Tamil 3.Indian Tamil 4.Sri Lankan Moor/Musl im	Religion (SINGLE ANSWER) 1.Buddhis m 2.Hinduis m 3.Islam 4.Roman Catholicis m 5.Other Christian	Marital status. (SINGLE ANSWER) 1. Never married 2.Currentl y married (registere d) 3.Currentl y married (customar y)	ASK ONLY IF THE MEMBER IS AGED 3 YRS OR ABOVE Current attendance at school or any other educational institution. i.e.; is he/ she currently doing any	ASK ONLY IF THE MEMBER IS AGED 5 YRS OR ABOVE Highest level of education. (SINGLE ANSWER) 1.Studying/St udied Grade 1 2.Passed Grade 1 3.Passed	ASK ONLY IF THE MEMBER IS AGED 12 YRS OR ABOVE Main activity usually engaged in? (SINGLE ANSWER) Economically Active 1.Engaged in economic activity/ currently	Main occupation. (SINGLE ANSWER) 1.Legislator, senior official, and manager 2.Profession al 3.Technician and associate professional	Daily wage owner? (SINGLE ANSWER) 1. Yes 0. No	Employm ent status of main occupati on. (SINGLE ANSWER) 1.Govern ment employee 2.Semi governme	The electricity consumption can vary based on the time that people stay at home. Therefore, we would like to know the number of hours stayed at home during last week for each member. For example, if a member leaves for work at 6.30 in the morning and returns only at 7.00 in the night, and after he returns home, he doesn't go out again, before he left for work, from midnight to 6.30am, he stayed at home for 6 hrs and 30 min. like-wise, after he returned home from work, from 7.00pm till midnight, he stayed at home for 5 hrs. This means, in total, he has
	r the first nam e of the hou seh old me mbe	4. Son-in- law/Daught er in law 5. Parents of the head of the Household/ spouse 6. Grandson/ Granddaug hter			YED)	5.Burgher 6.Malay 7.Other	denomina tions 6.No religion 9.Other	4. Widowe d 5. Divorce d 6. Legally separated	type of studying? This could be a degree, MBA etc., or following a course like CIMA, CIM or a	Grade 2 4.Passed Grade 3 5.Passed Grade 4 6.Passed Grade 5 7.Passed Grade 6 8.Passed Grade 7	employed/ engaged in own business 2. Retired and obtaining government/semi -government pension payment and is currently engaged in economic activity (employed	4.Clerk 5.Service worker and shop and market sales worker 6.Skilled agricultural		nt employee 3.Private sector employee 4.Employ er	spent 11 hrs and 30 min at home. If this happened all 5 weekdays, in that 5 weekdays, he would have stayed at home for 57 hrs and 30 min. During weekends, on Saturday, if he went out at 10 in the morning and came home at 3pm, and did not go anywhere after that, on Saturday, he has not being at home for 5 hrs. i.e.; he has stayed at home for 19 hrs. similarly,

W2_C.3 INTERVIEWER TO SAY: I would also like to know a few details about the other members of the household who were there when we did the first interview.

W2_C.3.	W2_C.3.j_1 INSTRUCTIO NS TO PROGRAM MER: PRE-LOAD THE NAMES OF THE MEMBERS WHO WERE LIVING IN THE HOUSEHOL D IN WAVE 1 TOGETHER WITH THEIR MAIN ACTIVITY ENGAGED IN (W1_C.2.j IN WAVE 1).	W2_C.3.j INSTRUCTIO NS TO PROGRAM MER: PRE-LOAD THE NAMES OF THE MEMBERS WHO WERE LIVING IN THE HOUSEHOL D IN WAVE 1	(ASK IF W2_C.3.j = ECONOMICALLY ACTIVE (CODED 1,2 OR 3)			W2_C.3.n INSTRUCTIONS TO PROGRAMMER: PRE-LOAD THE NAMES OF THE MEMBERS WHO WERE LIVING IN THE HOUSEHOLD IN WAVE 1. KEEP SPACE FOR INTERVIEWER TO ENTER THE NUMBER OF HOURS
			W2 C.3.k	W2 C.3.I	W2 C.3m	
No (PRE the LOA member D) (INSTRU (INS TIONS TO TRU PROGRA CTIO MMER: NS PRE-TO LOAD PRO FROM GRA W1_C.2. MM a, ER: W1_C.2. PRE- AND LOA W1_C.2. D d.1 IN FRO W1 M QUESTIC W1 NNAIRE)	Was there any change in the main activity usually engaged in? it could be a change in jobs, a promotion etc., or started to	ASK ONLY IF THE MEMBER IS AGED 12 YRS OR ABOVE Main activity usually engaged in currently? (SINGLE ANSWER) Economically Active 1.Engaged in economic activity/ currently employed/ engaged in own business 2.Retired and obtaining government/s emi- government pension payment and is currently engaged in economic activity/ (employed elsewhere other than the place where he/she is receiving the pension from /	Main occupation. (SINGLE ANSWER) 1.Legislator, senior official, and manager 2.Profession al 3.Technician and associate professional 4.Clerk 5.Service worker and shop and market sales worker 6.Skilled agricultural and fishery worker 7.Craft and related worker 8.Plant and machine operator and assembler	Daily wage owner? (SINGLE ANSWER) 1. Yes 0. No	Employmen t status of main occupation. (SINGLE ANSWER) 1.Governme nt employee 2.Semi government employee 3.Private sector employee 4.Employer 5.Own account worker 6.Contributi ng family worker	The electricity consumption can vary based on the time that people stay at home. Therefore, we would like to know the number of hours stayed at home during last week for each member. For example, if a member leaves for work at 6.30 in the morning and returns only at 7.00 in the night, and after he returns home, he doesn't go out again, before he left for work, from midnight to 6.30am, he stayed at home for 6 hrs and 30 min. like-wise, after he returned home from work, from 7.00pm till midnight, he stayed at home for 5 hrs. This means, in total, he has spent 11 hrs and 30 min at home. If this happened all 5 weekdays, in that 5 weekdays, he would have stayed at home for 57 hrs and 30 min. During weekends, on Saturday, if he went out at 10 in the morning and came home at 3pm, and did not go anywhere after that, on Saturday, he has not being at home for 5 hrs. i.e.; he has stayed at home for 19 hrs. similarly, on Sunday, if he left home at 8am and came at 10am, and again left at 4.30pm and returned home at 8.30pm, on Sunday, he was not home

	engaged in		 	for 2 hrs in the morning and 4
	own business)	9.Elementar		hrs in the evening, i.e.; in total,
	3.Seeking for	У		<u> </u>
	and available	occupation		he was not home for 6 hrs, so,
	to work	occupation		on Sunday, he was at home for
	Economically	10.Related		18 hrs. This means, that he
	Inactive	to forces.		stayed at home for 11 hrs and
	4.Retired -	to forces.		30 min during each weekday,
	Obtaining	11.No		for 5 days, i.e.; 57 hrs and 30
	government/s	occupation		min in total during weekdays,
	emi-	occupation.		19 hrs on Saturday and 18 hrs
	government			on Sunday. i.e.; in total, he has
	pension			stayed home for 57 1/2 hrs +
	payment and			19hrs + 18hrs, i.e.; 94.5 hrs in
	currently not			total.
	engaged in			
	economic			(PROG: VALUES CAN BE FROM
	activity (not			0-168)
	employed			
	elsewhere or			INSTRUCTIONS TO INT.:
	not engaged in			PROBE FOR WEEKDAYS AND
	any own			WEEKENDS SEPARATELY
	business)			WEEKENDS SEPAKATEET
	5.Retired from			
	the			INSTRUCTIONS TO INT.: Please
	private/semi-			
	government			use the following –
	sector and			15 min = 0.25 hrs
	does not			20 min = 0.33 hrs
	obtain any			30 min = 0.5 hrs
	pension			40 min = 0.66 hrs
	payment.			45 min = 0.75 hrs
	6.Received			60 min = 1 hr
	other pension			If used 24x7 = 168 hrs
	payments.			
	7.Household			
	activities			
	8.Student			
	9.Too old /			
	Disable/ unable to			
	work.			
	10.Other			

W2_C.4		
ASK: W2_C3 = 1 or 2	TYPE: Single Selection	

You mentioned that there are renters or boarders living in this household who share the same electricity meter. Which of the following best describes how you charge them for electricity?

INSTRUCTIONS TO INTERVIEWERS: READ OUT THE ANSWERS

- 1. You charge a fixed amount every month for electricity.
- 2. You charge an amount for electricity depending on the variance of the bill.
- 3. You don't charge a specific amount for electricity but charge a fixed amount for all the utilities such as electricity, water etc.
- 4. You don't charge a specific amount for electricity but charge a varied amount for all the utilities such as electricity, water etc. The amount charged varied based on the utility bills
- 5. You don't charge them for electricity consumption

W2_C.6		
ASK: W2_B.1 = 2 or 3 or 4	TYPE: Single Selection	

You mentioned that you are living on rent. Which of the following best describes the payment for your electricity consumption?

NSTRUCTIONS TO INTERVIEWERS: READ OUT THE ANSWERS

- 1. You pay the full amount of the electricity bill.
- 2. You pay a fixed amount to the owner every month for electricity.
- 3. You pay a varied amount to the owner every month for electricity. The amount paid varies depending on the variance of the bill.
- 4. You don't pay a specific amount for electricity, but pay a fixed amount for all the utilities such as electricity, water etc.
- 5. You don't pay a specific amount for electricity, but pay a varied amount for all the utilities such as electricity, water etc. The amount paid varies depending on the variance of the utility bills.
- 6. You don't pay the owner for electricity consumption

W2_C.7						
ASK: As	k All	TYPE: Single Selection				
Is there	Is there any business activity that is being carried out in any part of this household such as a shop,					
a comn	nunication, your own offic	ce etc. for which, electricity is used	d from the same meter?			
1. Yes						
0.	No					

W2_C.8						
ASK: IF W1_C.7 = 1		TYPE: Single Selection				
What to	What type of business activity is being carried out in this household?					
0.	0. A shop					
1.	1. A communication					
2.	2. Other (specify)					

Module D: List of appliances in the household

INTERVIEWER TO SAY:

As mentioned earlier, we are doing this study to get an understanding of what all are related to the electricity consumption. As you know, the electricity consumption depends on the electric appliances used in your household. Therefore, as in the previous time, I'd like to ask a few questions regarding the electric appliances that are there in your household which are in working condition and a few questions on your usage habits of these appliances.

We have with us the list of appliances that you mentioned were there in your household which are in working condition and which, you have used at least once, together with the number of such appliances. As I read out each appliance, can you please tell me whether they are still there in your household in working condition?

W2_D1_0. INS. TO PROG: PRE-LOAD THE TYPE OF APPLIANCE AND THE NUMBER FROM W1. (FROM W1_D1 AND W1_D2)	W2_D1a. INS. TO INTERVIEWERS: PLEASE ASK THE RESPONDENTS WHETHER THERE ARE ANY CHANGES TO THE NO. OF APPLIANCES AND MARK AS YES / NO	W2.D2a INS. TO PROG: ASK ONLY IF THERE IS A CHANGE TO THE NUMBER OF APPIANCES IN WORKING CONDITION (W2_D1a = 0)	INS. TO PROG: ASK ALL RESPONDENTS ABOUT ALL THE APPLIANCES. ASK SEPERATELY FOR THE NUMBER OF APPLIANCES
	You mentioned you had (MENTION THE NUMBER OF APPLIANCE) (MENTION THE CORRESPONDING TYPE OF APPLIANCE). Do you still have the same number of (MENTION APPLIANCE TYPE) in working condition?	No of appliance of the type? INSTRUCTIONS TO INT.: IF THE APPLIANCE IS NOT THERE ANYMORE, PLEASE ENTER AS '0'	W1_D3a. Duration of usage in hours during the last week INSTRUCTIONS TO INT.: PROBE FOR WEEKDAYS AND WEEKENDS SEPARATELY INSTRUCTIONS TO INT.: Please use the following – 15 min = 0.25 hrs 20 min = 0.33 hrs 30 min = 0.5 hrs 40 min = 0.66 hrs 45 min = 0.75 hrs 60 min = 1 hr If used 24x7 = 168 hrs (PROG: VALUES CAN BE FROM 0-168)
<appliance type=""> - <no. appliances="" of=""></no.></appliance>	1. Yes 0. No		
<appliance type=""> - <no. appliances="" of=""></no.></appliance>	1. Yes 0. No		

Apart from the above-mentioned appliances, do you have any of these appliances in your household in working condition?

Appliance	Appliance	W2 D1. Do	PROG: ASK W1	D2 AND W1 D3 TOGETHER
category	(INSTRUCTIONS TO INT.:	you have any		OF APPLIANCE BEFORE
<i>G</i> ,	SHOWCARD)	of these	MOVING TO TH	HE NEXT TYPE OF APPLIANCE
		appliances in	W2_D2. No	W2_D3. Duration of usage in
	PROG: DISPLAY THE	your	of appliance	hours during the last week
	APPLIANCES THAT WERE	household in	of the type	
	NOT AVAILABLE IN WAVE 1	working		INSTRUCTIONS TO INT.:
	(I.E.; NOT MENTIONED IN	condition		PROBE FOR WEEKDAYS AND
	W2_D1a)	which you		WEEKENDS SEPARATELY
		have used at		
		least once?		INSTRUCTIONS TO INT.:
		If you have		Please use the following –
		boarders or		15 min = 0.25 hrs
		those who		20 min = 0.33 hrs
		are living on		30 min = 0.5 hrs
		rent in your		40 min = 0.66 hrs
		household,		45 min = 0.75 hrs
		please		60 min = 1 hr
		include the		If used 24x7 = 168 hrs
		electrical		
		appliances		(PROG: ASK SEPERATELY
		used by them as well.		FOR THE NUMBER OF
		as well.		APPLIANCES)
				(PROG: VALUES CAN BE
				FROM 0-168)
	Refrigerator			
	Separate Freezer			
	Mini Bar			
	Microwave			
	Electric Oven			
	Electric cook tops (induction cookers,			
ËS	Infra-red cookers, hot plates) Electrical exhaust fan fitted above the			
N N	oven or the hot plate			
KITCHEN APPLIANCE	Electric Blender			
APF	Electric grinder			
Z	Electric mixer / beater			
품	Electric food processor			
Ā	Rice cooker			
	Electric Kettle			
	Electric water heater to heat water for drinking purposes			
	Toaster / Sandwich toaster			
	Waffle maker			
	Electric pressure cooker			
	Air fryer			
1	7 -	1		

	Coffee maker	
	Electric grill	
	Electric coconut scraper	
	Electric Water filter / water dispenser	
	Dish washer	
	Washing Machine	
	Clothes dryer	
CLEANING APPLIANCES	Electric Iron including electric steam iron	
A A	Electric Vacuum Cleaner	
CLE PPL	Electric floor polisher	
∀	Electric water gun (used to wash cars etc.)	
	Electric Lawn mower	
	TV	
빙	TV antenna	PROG: DURATION OF USAGE IS NOT REQUIRED
IANG	Dialog TV / Peo TV / Satellite TV box	PROG: DURATION OF USAGE IS NOT REQUIRED
PPI	Radio	
LΑ	Bluetooth Speakers	
N N	DVD / VCD	
₹	Gaming console/PlayStation	
A. A.	Sound systems (Subwoofer)/Stereo	
ENTERTAINMENT APPLIANCE	Camera (that needs to be charged using electricity)	INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
N N	Home theater system	
	Electric musical Instruments (ex.:	
	electric organ, electric guitar etc.)	
	Computers	INS. TO INT: ASK FOR THE TIME TAKEN
	Laptops	TO CHARGE
	Routers	
	Mobile phone – Smart phones	INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
	Mobile phone – Feature phones	INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
	Mobile phone – Basic phones	INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
	Fixed phones	
ICES	Power banks	INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
OFFICE APPLIANCES	Printer	INS. TO INT: NOT REQUIRED TO ASK FOR THE DURATION OF USAGE UNLESS THERE IS A COMMUNICATION CENTRE ATTACHED TO THE HOUSE OR THERE IS A BUSINESS THAT IS BEING CARRIED OUT AT THE HOUSE.
	Scanner	INS. TO INT: NOT REQUIRED TO ASK FOR THE DURATION OF USAGE UNLESS THERE IS A COMMUNICATION CENTRE ATTACHED TO THE HOUSE OR THERE IS A BUSINESS THAT IS BEING CARRIED OUT AT THE HOUSE.
	Fax machines	INS. TO INT: NOT REQUIRED TO ASK FOR THE DURATION OF USAGE UNLESS THERE IS A COMMUNICATION CENTRE ATTACHED TO THE HOUSE OR THERE IS A BUSINESS THAT IS BEING CARRIED OUT AT THE HOUSE.
	Photo Copiers	INS. TO INT: NOT REQUIRED TO ASK FOR THE DURATION OF USAGE UNLESS

		THERE IS A COMMUNICATION CENTRE
		ATTACHED TO THE HOUSE OR THERE IS A BUSINESS THAT IS BEING CARRIED
		OUT AT THE HOUSE.
S S	Hair dryer	
I AN VES	Hair iron / hair curlers	
HEALTH AND WELLNESS APPLIANCES	Electric shavers	INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
I / 4	Electric Exercise Machines	
	Roller door	PROG: DURATION OF USAGE IS NOT REQUIRED
SECURITY APPLIANCES	CCTV camera systems (note to int.: even if there are more than one camera in the system, please consider as 1 CCTV camera system)	PROG: DURATION OF USAGE IS NOT REQUIRED
APPL	Electric Alarm System	PROG: DURATION OF USAGE IS NOT REQUIRED
URITY	Other Electric Security Systems	PROG: DURATION OF USAGE IS NOT REQUIRED
SEC	Electric Bell	PROG: DURATION OF USAGE IS NOT REQUIRED
C SS	Electric vehicles (four wheelers) - cars, vans, SUVs)	INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
ELECTRIC VEHICLES	Electric vehicles (two wheelers) - Electric bicycles, scooters	INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
ELE	Electric vehicles (three wheelers)	INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
	Electric Water pump	
	Electric Sewing machine	
	Oxygen filter for fish tank	
	Geyser / Hot water systems for bathrooms which operate from electricity	
	Hot tub	
	Electric Fountain / decorative waterfall	
	Emergency Light / re-chargeable torches	INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
OTHER APPLIANCES	Electric heater (to control room temperature)	
	Humidifier	
	Toys with re-chargeable batteries	INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
A AF	Other (specify)	
Ë	Other (specify)	
10	Other (specify)	
	Tabs	

Module E: Changes in the Housing Characteristics

INTERVIEWER TO SAY: Now I'd like to know a few details about the household. When we say household, we mean the area covered by the electricity meter. If you remember, last time I asked you about the number of rooms in the household and a few details of each. As I read out each room type and the number of rooms of that type that were there when we last interviewed you please tell me whether there are any changes to the number of rooms/parts?

If there are rooms or parts of the household that are not directly connected to the house but is still covered by the same electricity meter such as a separate kitchen or a toilet, please include these as well.

W2_E.5		
AK: All Respondents	TYPE: E.5c – Single selection / E.5d - Fill in	

PROG. INSTRUCTIONS: PRE-LOAD THE TYPES OF ROOMS TOGETHER WITH THE NUMBER OF ROOMS RECORDED IN WAVE 1 FROM W1_E.5. (COLUMN 1 AND 2 IN THE BELOW TABLE)

INSTRUCTIONS TO INTERVIEWERS: READ OUT THE TYPE AND NUMBER OF ROOMS FROM THE BELOW TABLE. IF THE RESPONDENT SAY THAT THERE IS A CHANGE IN THE NUMBER OF ROOMS OF A PARTICULAR TYPE, CODE 'YES' IN W2_E.5c AND ENTER THE NEW NUMBER OF ROOMS IN W2_E.5d. IF THE RESPONDENT SAY THAT THERE IS NO CHANGE IN THE NUMBER OF ROOMS OF A PARTICULAR TYPE, CODE 'NO' IN W2_E.5c.

INSTRUCTIONS TO INTERVIEWERS: A ROOM CANNOT BE REPORTED TWICE. THIS INCLUDES ALL ROOMS INCLUDING KITCHENS, GARDENS, PASSAGES, LIVING ROOMS AND BATHROOMS WHERE THE AGGREGATION EVENTUALLY COVERS THE ENTIRE HOUSE

Type of rooms	Number of rooms	W2_E.5c Are there	W2_E.5d (Prog. Inst.: ASK
	(TO BE PRE-	any changes to the	ONLY IF "1" CODED AT
	LOADED)	number of	W2_E.5c)
		(room type)?	New no. of rooms
Living room		Yes – 1 No - 0	
Bedrooms		Yes – 1 No - 0	
Kitchen and/ or pantry / dining room		Yes – 1 No - 0	
Bathroom and / or toilets		Yes – 1 No - 0	
Storage room		Yes – 1 No - 0	
Other rooms / parts in the house		Yes – 1 No - 0	
including passages, veranda's,			
balconies, staircase etc.			
Garage		Yes – 1 No - 0	
Security Room		Yes – 1 No - 0	
Garden (including the wall around		Yes – 1 No - 0	
the garden, if any)			
Other rooms outside the house		Yes – 1 No - 0	

INTERVIEWER TO SAY: As in the last time, I would like to know a few details about the rooms in your household, especially the number of lights, fans, etc. We would like to know these details because we want to understand the relationship between the usage of lights, fans etc. and the electricity consumption. Let's start from one room and move on to each room in the household.

INSTRUCTIONS TO PROGRAMMER:

- THE FOLLOWING FLOW OF QUESTIONS TO BE ASKED FOR EACH ROOM SEPARATELY.
- EACH ROOM SHOULD HAVE A SERIAL NUMBER. SERIAL NUMBER TO BE OF THE FORMAT "ROOM NUMBER".

INSTRUCTIONS TO PROGRAMMER – ROOM ROSTER:

- ORDER OF QUESTIONING SHOULD BE AS FOLLOWS:
 - ASK W2_E.6.a W2_E.6.j FOR ROOM NO. 1

- ASK THE LIGHT ROSTER FOR ROOM NO. 1 (IF APPLICABLE, I.E.; W2_E.6.j NOT EQUAL TO '0')
- o ASK W2_E.6.k FOR ROOM NO. 1
- ASK THE FAN ROSTER FOR ROOM NO. 1 (IF APPLICABLE, I.E.; W2_E.6.k NOT EQUAL TO '0')
- o ASK W2_E.6.I FOR ROOM NO. 1
- O ASK THE AC ROSTER FOR ROOM NO. 1 (IF APPLICABLE, I.E.; W2_E.6.I NOT EQUAL TO '0')
- O REPEAT ABOVE ORDER FOR EACH ROOM

	W2_E.6.a	W2_E.6.a_1	W2_ E.6.b	W2_E.6.c	W2_E.6.c_2	W2_E.6.d	W2_E.6.e	W2_E.6.f	W2_E. 6.h	W2_E.6.i	W2_E.6.j	W1_E.6.j_1	W2_E.6.k	W2_E.6.I
No	For what	Was this section	In	What is	What type	What is the	How many	How many	ASK	Does this	How many light bulbs do you	And how	How many fans	How
	purposes	a part of the	whic	the main	of ceiling	main	doors are	windows are	ONLY	section of	have in this section of the	many of	do you have in	many
	do you	household	h	material	does this	material	there in this	there in this	IF	the	household? Please include	these bulbs	this section of	ACs do
	mainly use	when we did	store	used for	section of	used for	part of the	part of the	W2 E.	household	the roof lights and wall lights	did you use	the household?	you have
	this section	the first	y is	the roof	the	the floor of	house that let	house that let	6.f > 0	have	when counting the number	in the last	Please include	in this
	of the	interview in	this	of this	household	this section	in light and	in light and		natural	of lights. If there are lamp	week?	all types of fans	section
	household?	<programme< td=""><td>secti</td><td>section</td><td>have?</td><td>of the</td><td>air from the</td><td>air from the</td><td>Do you</td><td>ventilation</td><td>shades etc. which has more</td><td></td><td>such as ceiling</td><td>of the</td></programme<>	secti	section	have?	of the	air from the	air from the	Do you	ventilation	shades etc. which has more		such as ceiling	of the
		R	on of	of the	INSTRUCTI	household?	outside? That	outside? That	have	other than	than one bulb, but all bulbs	PROG:	fans, pedestal	househol
	1. Living	INSTRUCTIONS:	the	househol	ONS TO		is, how many	is, how many	curtain	windows,	switches on with one	KEEP	fans, table fans,	d?
	room	MENTION THE	hous	d?	INTERVIEW	1.Cement	doors are	windows are	s or	to allow	common switch, please	SPACE TO	exhaust fans,	
	2. Bedrooms	MONTH WHEN	ehol		ER:	2.Teraso	there that let	there that let	blinds	fresh air	count as one light.	RECORD	tower fans etc.	PROG:
	3. Kitchen	FIELDWORK	d	1.Tile	SHOWCAR	3.Tile	in light and	in light and	for the	circulation?	Also, if there are table lamps,	NUMBER		KEEP
	and/ or	WAS	locat	2.Asbest	D	4.Granite	air into the	air into the	windo	This could	bed side lamps, lamp shades	OF LIGHTS.	PROG: KEEP	SPACE
	pantry/ dining room	CONDUCTED	ed?	os	1. No	5.Wood	room from an	room from an	ws of	be a	etc. in this part of the	ACCEPT	SPACE TO	то
	4. Bathroom	FOR WAVE 1>?	(Defi	3.Concret	ceiling, just	(finished) 6.Mud	external	external	this	ventilation	household, please include	ONLY	RECORD	RECORD
	and / or	And were there	ne	е	the roof	7.Wood	environment	environment	section	hole in the	them as well.	INTEGER	NUMBER OF	NUMBER
	toilets	any changes	grou	4.Metal	above	8.Sand	such as a	such as a	of the	wall or a	IF BATHROOM/ TOILET: INT.	NUMBERS	FANS. ACCEPT	OF ACs.
	5. Storage	done for this	nd	Sheet	2. A	9.Concrete	garden, a	garden, a	househ	area with a	TO PROBE – Are there any		ONLY INTEGER	ACCEPT
	room	section of the	floor	5.Takara	convention	10.Other	balcony or a	balcony or a	old?	grill on top	mirror lights?	INS. TO	NUMBERS	ONLY
	6. Gaming	household?	by	n	al ceiling	11. Garden	veranda?	veranda?		of the	IF GARDEN: INT. TO PROBE –	PROG:		INTEGER
	room		zero)	6.Cadjun	3. A	– Not		INST. TO INT:	1.Yes	windows	Are there any garden lights	IF NO. OF	INS. TO PROG:	NUMBER
	7.Servant's	1. Yes, and no		/Palmyra	beamed	relevant	INST. TO INT:	RECORD THE	0.No	which is	or lights on the wall	LIGHTS	IF NO. OF FANs	S
	Room	changes were		/Straw	ceiling		RECORD THE	NUMBER OF	2.	not	(thaappaya)?	NOT	NOT EQUAL TO	
	8. Visitors'	done to this		7.Tent	4. A		NUMBER OF	WINDOWS. IF	Garden	covered by		EQUAL TO	ZERO,	INS. TO
	room 9. Passage	section of the		8.Plastic	hanging		DOORS. IF	THERE ARE	– Not	the window	PROG: KEEP SPACE TO	ZERO,	REPEAT THE	PROG:
	10. Veranda	household à GO		sheets	ceiling		THERE ARE	NO	relevan	pane etc.	RECORD NUMBER OF	REPEAT	FOLLOWING	IF NO. OF
	11. Balcony	TO W2_E.6.j		9.Other	5. A		NO DOORS,	WINDOWS,	t	(SHOWCAR	LIGHTS. ACCEPT ONLY	THE	FAN ROSTER	ACs NOT
	12. Staircase	2. Yes, but		10.	polythene		RECORD AS	RECORD AS		D)	INTEGER NUMBERS	FOLLOWIN	FOR NUMBER	EQUAL
	13. Garage	there were		Garden –	cover as a		'0'	'0'		4.4		G LIGHT	OF FANs	TO ZERO,
	14. Security	some changes		Not	ceiling					1.Yes		ROSTER		REPEAT
	Room	done to this		relevant	6. No		PROG: KEEP	PROG: KEEP		0.No		FOR		THE
	15. Garden	section of the			ceiling, the		SPACE TO	SPACE TO		2. Garden –		NUMBER		FOLLOWI
	16. Other	household à			concrete		RECORD	RECORD		Not		OF LIGHTS.		NG AC
	rooms	CONTINUE			slab		NUMBER OF	NUMBER OF		relevant				ROSTER
	outside the	0. No, this			7. Wooden		DOORS.	WINDOWS.						FOR
	house	section was built after the			ceiling 8. Other		ACCEPT ONLY INTEGER	ACCEPT ONLY INTEGER						NUMBER
	17. Study room /Office						_	_						ACs.
	room	1st interview à CONTINUE			9. Garden – Not		NUMBERS.	NUMBERS.						
	18.Other	CONTINUE												
	10.001161				relevant									
								İ	İ			İ		

Light Roster

W2_E.6. n		W2_E.6. o	W2_E.6. p	W2_E.6. q
No What is the ty light Bulb out INST. TO INT: respondent is whether the I CFL or an LED it as CFL (SHOWCARD) 1.Incandescen 2.CFL 3.LED 4.Halogen 5.Tube Light (6.Tube Light (17.Flashlight 8.Flood light 9. Other	of following? If the not sure ight bulb is a , please code t	What is the wattage (W) of the light? INST. TO INT: If there are lamp shades etc. which has more than one bulb, but all bulbs switches on with one common switch, please add up the wattage of all the bulbs and record below. INS. TO INT.: IF THE RESPONDENT DOES NOT KNOW THE WATTAGE, PLEASE MARK AS "0".	For how many hours was this light kept switched on last week during daytime. (8am – 6pm)? INSTRUCTIONS TO INT.: PROBE FOR WEEKDAYS AND WEEKENDS SEPARATELY (INSTRUCTIONS TO PROG: VALUE NEEDS TO BE BETWEEN 0 – 70. SHOULD ALLOW DECIMALS) INSTRUCTIONS TO INT.: Please use the following – 15 min = 0.25 hrs 20 min = 0.33 hrs 30 min = 0.5 hrs 40 min = 0.66 hrs 45 min = 0.75 hrs 60 min = 1 hr Total number of hours per day from 8am – 6pm = 10 hrs If used every day from 8am-6pm = 70 hr	For how many hours was this light kept switched on, during last week during night-time. (6pm- – 8am)? INSTRUCTIONS TO INT.: PROBE FOR WEEKDAYS AND WEEKENDS SEPARATELY (INSTRUCTIONS TO PROG: VALUE NEEDS TO BE BETWEEN 0 – 98. SHOULD ALLOW DECIMALS) INSTRUCTIONS TO INT.: Please use the following – 15 min = 0.25 hrs 20 min = 0.33 hrs 30 min = 0.5 hrs 40 min = 0.66 hrs 45 min = 0.75 hrs 60 min = 1 hr Total number of hours per day from 6pm – 8am = 14 hrs If used every day from 6pm – 8am = 98 hrs

Fan Roster

W2_E.6.r	W2_E.6.s	W2_E.6.t
No What is the type of the fan? (SHOWCARD) 1.Ceiling fan 2.Wall fan 3.Pedestal fan/ Stand fan 4.Table fan 5.Exhaust fan 6.Tower fan 7.Other	For how many hours was this fan kept switched on last week during daytime. (8am – 6pm)? INSTRUCTIONS TO INT.: PROBE FOR WEEKDAYS AND WEEKENDS SEPARATELY (INSTRUCTIONS TO PROG: VALUE NEEDS TO BE BETWEEN 0 – 70. SHOULD ALLOW DECIMALS) INSTRUCTIONS TO INT.: Please use the following – 15 min = 0.25 hrs 20 min = 0.33 hrs 30 min = 0.5 hrs 40 min = 0.66 hrs 45 min = 0.75 hrs 60 min = 1 hr Total number of hours per day from 8am – 6pm = 10 hrs If used every day from 8am-6pm = 70 hrs	For how many hours was this fan kept switched on last week during night-time. (6pm – 8am)? INSTRUCTIONS TO INT.: PROBE FOR WEEKDAYS AND WEEKENDS SEPARATELY (INSTRUCTIONS TO PROG: VALUE NEEDS TO BE BETWEEN 0 – 98. SHOULD ALLOW DECIMALS) INSTRUCTIONS TO INT.: Please use the following – 15 min = 0.25 hrs 20 min = 0.33 hrs 30 min = 0.5 hrs 40 min = 0.66 hrs 45 min = 0.75 hrs 60 min = 1 hr Total number of hours per day from 6pm – 8am = 14 hrs If used every day from 6pm – 8am = 98 hrs

AC Roster

	W2_E.6. u	W2_ E.6. v	W2_E.6. w	W2_E. 6. x_2	W2_E.6. y	W2_E.6. z
No	What is the type of air conditioning used in the room? (SHOWCARD) 1.Central AC (Only to your Household) 2. Central AC (For the whole building. Relevant if B.5 = 5 or 6) 3. Individual AC with two components 4.Individual AC with one component 5.Air Cooler 6.Other	IF W2_E.6.u = 3 or 4 Is the AC an inver ter AC? 1.Yes 0.No	Which of the following is true regarding air conditioners? 1. The room can be fully closed and sealed and there are no outside openings. When the AC is turned on, the cool air does not go out of the room. 2. The room is fully closed. However, it is not fully sealed. Therefore, when the AC is on, the cool air may leak through the spaces that are not sealed such as the space in-between the door and the door frame 3. The room is not fully closed. There are spaces where the cool air can leak out	What is the BTU of the AC? INS. TO INT - IF THE RESPO NDENT DOES NOT KNOW THE BTU, MARK AS "0"	For how many hours was this AC kept switched on, last week, during daytime? (8am – 6pm)? INSTRUCTIONS TO INT.: PROBE FOR WEEKDAYS AND WEEKENDS SEPARATELY (INSTRUCTIONS TO PROG: VALUE NEEDS TO BE BETWEEN 0 – 70. SHOULD ALLOW DECIMALS) INSTRUCTIONS TO INT.: Please use the following – 15 min = 0.25 hrs 20 min = 0.33 hrs 30 min = 0.5 hrs 40 min = 0.66 hrs 45 min = 0.75 hrs 60 min = 1 hr Total number of hours per day from 8am – 6pm = 10 hrs If used every day from 8am-6pm = 70 hrs	For how many hours was this AC kept switched on last week, during night-time. (6pm – 8am)? INSTRUCTIONS TO INT.: PROBE FOR WEEKDAYS AND WEEKENDS SEPARATELY (INSTRUCTIONS TO PROG: VALUE NEEDS TO BE BETWEEN 0 – 98. SHOULD ALLOW DECIMALS) INSTRUCTIONS TO INT.: Please use the following – 15 min = 0.25 hrs 20 min = 0.33 hrs 30 min = 0.5 hrs 40 min = 0.66 hrs 45 min = 0.75 hrs 60 min = 1 hr Total number of hours per day from 6pm – 8am = 14 hrs If used every day from 6pm – 8am = 98 hrs

W2_E.7						
ASK: All Respondents TYPE: Single Selection						
Are there any other parts of the household which are covered by the same electricity meter which were not covered above?						
1. Yes à INST. TO PROG: GO TO W2_E.7a						
0. No à INST. TO PROG: GO TO W2_E.8						

W2_E.7a					
ASK: Ask if W2_E.7 = 1	TYPE: Fill in	Ref: RECS-Your Home			
Can you please tell me which par	rts of the house you have missed	mentioning earlier? Please			
mention only the parts you have	missed and to which, electricity i	s supplied from the same			
electricity meter?					
INST. TO INT: PLEASE STATE ON	LY THE NUMBER OF ROOMS/ PAI	RTS OF THE HOUSEHOLD WHIC	Н		
WERE MISSED BY THE RESPOND	ENT EARLIER.				
Living room					
Bedrooms	Bedrooms				
Kitchen and/ or pantry / dining r	oom				
Bathroom and / or toilets					
Storage room					
Other rooms / parts in the house	including passages, veranda's, ba	alconies, staircase etc.			
Garage					
Security Room					
Garden (including the wall around the garden, if any)					
Other rooms outside the house	•				

ASK W2_B.5a = 2/3

W2_E.8 Are there any sections of the household that were there when we did the first interview, but has been demolished now?
Y / N

If Y à whch parts / number

INTERVIEWER TO SAY: Now I'd like to ask you the details about these parts of the household.

INST. TO PROG: REPEAT THE HOUSEHOLD ROSTER (W2_E.6.a – W2_E.6. z) FOR THE TOTAL NUMBER OF ROOMS IN W2_E.7a

W2_E.8						
ASK: All Respondents TYPE: Single Selection						
Are there any constructions	or renovations happening in this h	ousehold currently?				
1. Yes						
O. No						

MODULE E-2: OTHER METHODS OF GENERATING ELECTRICITY AND BACKUP ELECTRICITY

INTERVIEWER TO SAY:

Now I would like to know a few details about other methods that you may be using to generate electricity at your household. As we are interested in the electricity consumption of your household, it is also important for us to know whether you use electricity from the LECO supply only or whether there are any other methods that you use at your household to generate electricity such as generators and solar panels.

W2_E.18						
ASK: DO NOT ASK.	TYPE: Single Selection					
PROGRAMMER TO PRE-LOAD						
FROM WAVE 1						
(W2_E.1_SOLAR ENERGY)						
INSTRUCTIONS TO PROGRAMME	ER: PLEASE PRE-CODE BASED ON T	HE ANSWER TO 'SOLAR				
ENERGY' IN W1_E.1	ENERGY' IN W1_E.1					
Did the household had solar energy when the 1st interview was done?						
1. Yes à INSTRUCTIONS TO PROG.: GO TO W2_E.20a						
0. No à INSTRUCTIONS TO F	PROG.: GO TO W2_E.19					

W2_E.19						
ASK: ONLY IF W2_E.18 = 0	TYPE: Single Selection					
Do you have a solar panel to generate electricity at your home?						

- 1. Yes à INSTRUCTIONS TO PROG.: GO TO W2_E.13
- 0. No à INSTRUCTIONS TO PROG.: GO TO MODULE AP: DETAILS OF APPLIANCES

W2 E.20a

ASK: ONLY IF W2_E.18 = 1 TYPE: Single Selection

You mentioned that you have solar panels to generate electricity when we did the first interview. Do you still have it?

- 1. Yes à INSTRUCTIONS TO PROG.: GO TO W2 E.20b
- 0. No à INSTRUCTIONS TO PROG.: GO TO MODULE AP: DETAILS OF APPLIANCES

W2 E.20b

ASK: ONLY IF W2_E.20a = 1 TYPE: Single Selection

Have you done any changes to the number of panels in the solar panel at your household after we did the first interview? i.e.; have you increased or reduced the number of panels?

- 1. Yes, we have increased the number of panels
- 2. Yes, we have reduced the number of panels
- 3. No, we have not done any changes to the number of panels

W2 E.13

ASK: If W2_E.19=1 OR W2_E.20b = TYPE: Single Selection

1, 2 OR 3

Is your solar system on-grid or off-grid?

- 3. On-grid
- 4. Off-grid

W2 E.14

ASK: If W2_E.20a=1 OR W2_E.19=1 | TYPE: Single Selection

Do you have an inverter for the solar energy generation system? An inverter is a device that converts direct current (DC) electricity, which is what a solar panel generates, to alternating current (AC) electricity, which the electrical grid uses.

- 2. Yes
- 1. No

W2_E.12

ASK: If W2_E.13=2 TYPE: Multiple Selection

Which of the following purposes do you use solar energy inside your house?

- 2. Water heating
- 3. Cooking
- 4. Outdoor lighting
- 5. Car charging
- 6. Agriculture equipment and systems (irrigation systems, etc)
- 7. All the above
- 8. Other

W2 E.15a

ASK: If W2_E.20a=1 OR W2_E.19=1 TYPE: Single Selection

Are you aware of the number of units generated by the solar energy system in the last one month?

- 1. Yes
- 0. No

W2_E.15b					
ASK: If W2_E.15a =1	TYPE: Fill in				
How many units did the solar system generate last month?					
No. of units:	_				

W2_E.15c	
ASK: If W2_E.20a=1 OR W2_E.19=1 TYPE: Fill in	
What is the capacity of the solar system in your household?	
Capacity:	

Module AP: Details of appliances

INTERVIEWER TO SAY:

The types of appliances that you use, whether they were bought recently or some time ago, their brand, size, type etc., may have an impact on the electricity usage of a house. Therefore, we would like to collect some information on some of the appliances that are there in your household.

W2_AP.1	INST. TO PROG.: 1. THE FOLLOWING DETAILS NEED TO BE ASKED FOR ALL APPLIANCES OWNED BY THE HOUSEHOLD (STATED IN MODULE D: LIST OF APPLIANCES IN THE HOUSEHOLD) 2. ASK W2_AP.2 - W2_AP.7 FOR ONE APPLIANCE AND THEN MOVE TO THE NEXT APPLIANCE 3. IF THERE ARE MORE THAN ONE APPLIANCE FROM THE SAME TYPE, THE FOLLOWING DETAILS NEED TO BE ASKED FOR EACH APPLIANCE SEPARATELY. FOR EXAMPLE, IF THERE ARE TW REFRIGERATORS, THE FOLLOWING DETAILS NEEDS TO BE ASKED FOR THE TWO REFRIGERATORS SEPARATELY. I.E., ASK W2_AP.2 - W2_AP.7 FOR REFRIGERATOR 1 AND THEN ASK W2_AI W2_AP.7 FOR REFRIGERATOR 2 4. GIVE A SERIAL NUMBER FOR EACH APPLIANCE. THE SERIAL NUMBER SHOULD BE OF THE FOLLOWING FORMAT <appliance type_number=""> (EX.: IF THERE ARE TWO REFRIGERATORS THE FIRST REFRIGERATOR WILL BE REFRIGERATOR_1 AND THE SECOND WILL BE REFRIGERATOR_2) 5. W2_AP.3 AND W2_AP.4 ARE TO BE ASKED FOR ALL TYPES OF APPLIANCES. 6. W2_AP.2, W2_AP.5, W2_AP.6 AND W2_AP.7 ARE TO BE ASKED FOR ONLY SELECTED TYPES OF APPLIANCES. (STATED IN THE BELOW TABLE) INST. TO PROG.: PLEASE USE THE QUESTION NUMBER GIVEN IN EACH CELL (EG.: FOR REFRIGERATORS - W2_AP.2_REF, W2_AP.3_REF AND</appliance>					
	CELL (EG.: FOR REFRIGERAT W2_AP.4_REF) W2_AP.2 (TO BE ASKED ONLY FOR SELECTED TYPES OF APPLIANCES AS MARKED BELOW)	W2_AP.3 (TO BE ASKED FOR ALL TYPES OF APPLIANCES)	W2_AP.3_REF AND W2_AP.4 (TO BE ASKED FOR ALL TYPES OF APPLIANCES)	W2_AP.5 (TO BE ASKED ONLY FOR SELECTED TYPES OF APPLIANCES AS MARKED BELOW)	W2_AP.6 (TO BE ASKED ONLY FOR SELECTED TYPES OF APPLIANCES AS MARKED BELOW)	W2_AP.7 (TO BE ASKED ONLY FOR SELECTED TYPES OF APPLIANCES AS MARKED BELOW)
Type of appliance and number of appliances of the type INS. TO PROGRAMMER: DISPLAY THE TYPE OF APPLIANCES AND THE NUMBER OF APPLIANCES OF THAT TYPE FROM (W2_D1_0 / W2_D1a / W2.D2a) OR FROM (W2_D1/W2.D2) INST. TO INT.: IF THE NUMBER OF APPLIANCES OF THE TYPE IS ONLY 1, SAY: You mentioned that you have (STATE THE NUMBER OF APPLIANCES) (STATE THE TYPE OF APPLIANCE). We would like to know some details about your (STATE THE TYPE OF APPLIANCE) INST. TO INT.: IF THE NUMBER OF APPLIANCE) INST. TO INT.: IF THE NUMBER OF APPLIANCE) (STATE THE TYPE OF APPLIANCE). We would like to know some details about each of these (STATE THE TYPE OF APPLIANCE). We would like to know some details about each of these (STATE THE TYPE OF APPLIANCE). Please think about each appliance separately and answer.	Manufacturer/Brand (SINGLE ANSWER) INST. TO PROG: RELEVANT BRAND LISTS TO BE DISPLAYED FOR EACH TYPE OF APPLIANCE	When was this purchased? (SINGLE ANSWER) 1. Within the last 1 year. 2. Within the last 1- 5 years. 3. Wthin the last 5-10 years. 4. More than 10 years ago.	Was it purchased as brand new or a second hand? (SINGLE ANSWER) 1.Brand New 2.Second Hand	Other questions INST. TO PROG: ASK ONLY FOR RELEVANT APPLIANCES (AS STATED IN THE BELOW ROWS)	Size of the appliance? INST. TO PROG: ASK ONLY FOR RELEVANT APPLIANCES (AS STATED IN THE BELOW ROWS)	INST. TO PROG: ASK ONLY FOR RELEVANT APPLIANCES (AS STATED IN THE BELOW ROWS)

Refrigerator	W2_AP.2_REF_NUMBER	W2_AP.3_REF_	W2_AP.4_REF_NUM	W2_AP.5a_REF_NUMBER	W2_AP.6_REF_NUMBER	PROG. INS.: ASK ONLY IF THE REFRIGERATOR WAS
		NUMBER	BER	What is the door		PURCHASED IN THE LAST ONE YEAR. (IF W2_AP.3_REF =
				arrangement of the	Mention the length and	1)
				refrigerator?	the width of your	
				(SHOW CARD)	Refrigerator.	W2_AP.7_REF_NUMBER
				(SINGLE ANSWER)		Which of the following did you consider when purchasing
				1 One door	INST. TO PROG: KEEP	the refrigerator? Please mention three most important
				2 Two doors, freezer above	SPACE TO ENTER THE	attributes that you considered.
				the refrigerator	LENGTH AND THE WIDTH	
				3 Two doors, freezer below		(MULTIPLE RESPONSE – UPTO 3 ANSWERS)
				the refrigerator	INST. TO INT: ENTER THE	
				4 Three or more doors	LENGTH AND THE WIDTH	(PROG. INS.: ALLOW MAXIMUM OF 3 RESPONSES ONLY.
				5 Other	IN FEET	I.E. 0 – 3 ANSWERS ONLY)
				W2_AP.5b_REF_2_NUMBER	W2_AP.6a_REF_NUMBER	1. Brand
		1		Does your refrigerator	_a. length (in feet):	2. Energy Rating (wattage)
				require manual de-frosting?		3. Size of the refrigerator
				(SINGLE ANSWER)	W2_AP.6b_REF_NUMBER	4. No. of doors in the refrigerator
				1. Yes	_b. width (in feet):	5. De-frosting type of the refrigerator
				0. No		6. Size of the freezer of the refrigerator
					W2_AP.6c_REF_NUMBER	7. Added Features
				W2_AP.5c_REF_3_NUMBER	_b. height (in feet):	8. Country of manufacture
				Does your refrigerator have		9. Color
				the through-the-door ice		10. Safety
				facility?		11. Price
				(SINGLE ANSWER)		12. Professional Reviews
				1. Yes		99. Other (specify)
				2. No		
Separate Freezer	W2_AP.2_ SEPERATE	W2_AP.3_	W2_AP.4_	W2_AP.5a_SEPERATE	W2_AP.6_ SEPERATE	
	FREEZER_NUMBER	SEPERATE	SEPERATE	FREEZER_NUMBER	FREEZER_NUMBER	
		FREEZER_NUM	FREEZER_NUMBER	What is the door		
		BER		arrangement of the freezer?	Mention the length and	
				(SHOW CARD)	the width of your Freezer	
				(SINGLE ANSWER)		
				1 Upright	INST. TO PROG: KEEP	
				2 Chest	SPACE TO ENTER THE	
				3 Other	LENGTH AND THE WIDTH	
				W2 AP.5b SEPERATE	INST. TO INT: ENTER THE	
				FREEZER_NUMBER	LENGTH AND THE WIDTH	
				What is the defrosting type	IN FEET	
		1		of the freezer?		
				(SINGLE ANSWER)	W2 AP.6a SEPERATE	
		1		1 Manual	FREEZER NUMBER .	

Mini Bar	W2_AP.2_MINI	W2_AP.3_MINI	W2_AP.4_MINI		W2_AP.6b_ SEPERATE FREEZER_NUMBER width (in feet): W2_AP.6c_ SEPERATE FREEZER_NUMBER height (in feet):	
Microwave	BAR_NUMBER W2_AP.2_MICROWAVE_ NUMBER	BAR_NUMBER W2_AP.3_MICR OWAVE_NUMB ER	BAR_NUMBER W2_AP.4_MICROW AVE_NUMBER	W2_AP.5a_MICROWAVE_NU MBER What is the type of your microwave? (SHOW CARD) (SINGLE ANSWER) 1. Solo 2. Grill 3. Convection 4. Not aware		
Electric Oven	W2_AP.2_EL OVEN_NUMBER	W2_AP.3_ EL OVEN_NUMBER	W2_AP.4_ EL OVEN_NUMBER	W2_AP.5a_EL OVEN_NUMBER What is the type of your electric oven? (SHOW CARD) (SINGLE ANSWER) 1. Conventional 2. Convectional 3. Conventional with multifunction 4. Not aware		
Electric cook tops (induction cookers, Infra-red cookers, hot plates)	W2_AP.2_EL COOK TOP	W2_AP.3_EL COOK TOP_NUMBER	W2_AP.4_EL COOK TOP_NUMBER	W2_AP.5a_EL COOK TOP_NUMBER What is the type of your electric cook top? (SHOW CARD) (SINGLE ANSWER) 1. Solid plate 2. Ceramic 3. Induction 4. Infra-red 5. Cook top with a coil	W2_AP.6a_EL COOK TOP_NUMBER What is the plate size of your electric cook top? By plate size, we mean the diameter of the cook top? INST. TO PROG: KEEP SPACE TO ENTER THE DIAMETER INST. TO INT: ENTER THE DIAMETER IN INCHES	PROG. INS.: ASK ONLY IF THE ELECTRIC COOK TOP WAS PURCHASED IN THE LAST ONE YEAR. (IF W2_AP.3_ EL COOK TOP = 1) W2_AP.7_EL COOK TOP_NUMBER Which of the following did you consider when purchasing the electric cook top? Please mention three most important attributes that you considered. MULTIPLE RESPONSE – UPTO 3 ANSWERS) (PROG. INS.: ALLOW MAXIMUM OF 3 RESPONSES ONLY. I.E. 0 – 3 ANSWERS ONLY)

		Γ		1	1	
					Diameter (in inches):	1. Brand 2. Energy Rating 3. Type of the cook top (eg.: induction, infra-red etc.) 4. Added Features 5. Country of manufacture 6. Color 7. Safety 8. Price 9. Professional Reviews 99. Other (specify)
Electric Blender	W2_AP.2_EL BLENDER	W2_AP.3_EL BLENDER_NUM BER	W2_AP.4_EL BLENDER_NUMBER			
Electric grinder	W2_AP.2_EL GRINDER	W2_AP.3_EL GRINDER_NUM BER	W2_AP.4_EL GRINDER_NUMBER			
Electric food processor	W2_AP.2_EL FOOD PRC	W2_AP.3_EL FOOD PRC_NUMBER	W2_AP.4_EL FOOD PRC_NUMBER			
Rice cooker	W2_AP.2_RICE COOKER	W2_AP.3_RICE COOKER_NUMB ER	W2_AP.4_RICE COOKER_NUMBER			
Electric Kettle	W2_AP.2_EL KETTLE	W2_AP.3_EL KETTLE_NUMBE R	W2_AP.4_EL KETTLE_NUMBER			
Electric pressure cooker	W2_AP.2_EL- PRESSURE COOKER	W2_AP.3_EL PRESSURE COOKER_NUMB ER	W2_AP.4_EL PRESSURE COOKER_NUMBER			
Electric Air fryer	W2_AP.2_EL AIR FRYER	W2_AP.3_EL AIR FRYER_NUMBE R	W2_AP.4_EL AIR FRYER_NUMBER			
Dish washer	W2_AP.2_DISH WASHER	W2_AP.3_DISH WASHER_NUM BER	W2_AP.4_DISH WASHER_NUMBER			
Washing Machine	W2_AP.2_ WASH MACH	W2_AP.3_ WASH MACH_NUMBE R	W2_AP.4_ WASH MACH_NUMBER	W2_AP.5a_WASH MACH_NUMBER What is the type of your washing machine? (SHOW CARD) (SINGLE ANSWER) 1. Fully automatic Front loading		PROG INS.: ASK ONLY IF THE WASHING MACHINE WAS PURCHASED IN THE LAST ONE YEAR. (IF W2_AP.3_ WASH MACH = 1) W2_AP.7_WASH MACH_NUMBER Which of the following did you consider when purchasing the washing machine? Please mention three most important attributes that you considered.?

Clothes dryer	W2_AP.2_CLTH DRYER	W2_AP.3_CLTH DRYER_NUMBE	W2_AP.4_CLTH DRYER_NUMBER	2. Fully automatic Top loading 3. Semi-automatic Front loading 4. Semi-automatic Top loading W2_AP.5b_WASH MACH_NUMBER Water temperature used for washing machine? (MULTIPLE ANSWER) 1 Hot 2 Warm 3 Normal water 4 Don't know	(MULTIPLE RESPONSE – UPTO 3 ANSWERS) (PROG. INS.: ALLOW MAXIMUM OF 3 RESPONSES ONLY. I.E. 0 – 3 ANSWERS ONLY) 1. Brand 2. Energy Rating (wattage) 3. Type of washing machine (eg: Fully automatic Front loading, fully automatic Top loading, semi-automatic Front loading, semi-automatic Top loading) 4. Added Features 5. Material 5. Country of manufacture 6. Color 7. Safety 8. Price 9. Professional Reviews 99. Other (specify)
Electric Iron including electric steam iron	W2_AP.2_IRON	R W2_AP.3_IRON _NUMBER	W2_AP.4_IRON_NU MBER	W2_AP.5a_IRON_NUMBER What is the type of your iron? (SHOW CARD) (SINGLE ANSWER) 1. Dry irons (with or without water steaming facility) 2. Steam irons 3. Other	PROG. INS.: ASK ONLY IF THE IRON WAS PURCHASED IN THE LAST ONE YEAR. (IF W2_AP.3_IRON = 1) W2_AP.7_IRON_NUMBER Which of the following did you consider when purchasing the iron? Please mention three most important attributes that you considered.? (MULTIPLE RESPONSE – UPTO 3 ANSWERS) (PROG. INS.: ALLOW MAXIMUM OF 3 RESPONSES ONLY. I.E. 0 – 3 ANSWERS ONLY) 1. Brand 2. Energy Rating (wattage) 3. Added Features 4. Material 4. Type of iron (ex.: dry vs, steam) 5. Country of manufacture 6. Color 7. Safety 8. Price 9. Professional Reviews 99. Other (specify)

Electric Vacuum Cleaner	W2_AP.2_EL VAC CLN	W2_AP.3_EL	W2_AP.4_EL VAC			
		VAC	CLN_NUMBER			
		CLN_NUMBER				
Electric Lawn mower	W2_AP.2_EL LAWN	W2_AP.3_EL	W2_AP.4_EL LAWN			
	MOWER	LAWN	MOWER_NUMBER			
		MOWER_NUMB				
		ER				
TV	W2_AP.2_TV	W2_AP.3_TV_N	W2_AP.4_TV_NUM	W2_AP.5a_TV_NUMBER	W2_AP.6a_TV_NUMBER	
		UMBER	BER	What is the type of your TV?	Size of TV	
				(SHOW CARD)	(SINGLE ANSWER)	
				(SINGLE ANSWER)	1 27 inches or less	
				1. CRT.	2 28 to 39 inches	
				2. LCD / LED (Note to	3 40 to 59 inches	
				interviewer, (do not read	4 60 inches or more	
				out) multiple variations of	5. Other	
				LCD screens are called QLED,		
				quantum dot, LED, LCD TN,		
				LCD IPS, LCD PLS, LCD VA,		
				etc.)		
				3. OLED.		
				4. Plasma		
Computers	W2_AP.2_COMP	W2_AP.3_COM	W2_AP.4_COMP_N			
		P_NUMBER	UMBER			
Laptops	W2_AP.2_LAPTOP	W2_AP.3_LAPT	W2_AP.4_LAPTOP_			
		OP_NUMBER	NUMBER			
Electric Exercise Machines	W2_AP.2_EL EX MACH	W2_AP.3_EL EX	W2_AP.4_EL EX			
		MACH_NUMBE	MACH_NUMBER			
		R				
Electric Water pump	W2_AP.2_EL WATER	W2_AP.3_EL	W2_AP.4_EL WATER			
	PUMP	WATER	PUMP_NUMBER			
		PUMP_NUMBE				
		R				
Electric Sewing machine	W2_AP.2_EL SEWN	W2_AP.3_EL	W2_AP.4_EL SEWN			
	MACH	SEWN	MACH_NUMBER			
		MACH_NUMBE				
		R				
Geyser / Hot water systems for	W2_AP.2_GYS/ HOT	W2_AP.3_GYS/	W2_AP.4_GYS/ HOT			
bathrooms which operate from electricity	WATER SYS	HOT WATER	WATER			
,		SYS_NUMBER	SYS_NUMBER			
Electric heater (to control room	W2_AP.2_EL_HEATER	W2_AP.3_EL_H	W2_AP.4_EL_HEATE			
temperature)		EATER_NUMBE	R_NUMBER			
		R	_			
Humidifier	W2_AP.2_HUMIDIFIER	W2_AP.3_HUMI	W2_AP.4_HUMIDIFI			
		DIFIER_NUMBE	ER_NUMBER			
		R				
	1	L * *	l	l .	L	

INST. TO PROG.: ASK ONLY IF THE RESPONDENT HAS AT LEAST ONE AC IN	W2_AP.2_AC_NUMBER	W2_AP.3_AC_N UMBER	W2_AP.4_AC_NUM BER	W2_AP.5a_AC_NUMBER How many times did you	PROG. INS.: ASK ONLY IF THE AC WAS PURCHASED IN THE LAST ONE YEAR. (IF W2_AP.3_AC = 1)
THE ROOM ROSTER. (I.E.; IF W2_E.6.I				change the air filters in the	
NOT EQUAL TO 0 FOR AT LEAST ONE				last year? (ANSWER TYPE:	W2_AP.7_AC_NUMBER
ROOM IN THE ROOM ROSTER)				Single selection)	Which of the following did you consider when purchasing
				(SINGLE ANSWER)	the AC? Please mention three most important attributes
Air conditioner				1. Once	that you considered?
				2. Twice	
				3. Three times	((MULTIPLE RESPONSE – UPTO 3 ANSWERS)
				4. Four times	
				5. More than four times	(PROG. INS.: ALLOW MAXIMUM OF 3 RESPONSES ONLY.
					I.E. 0 – 3 ANSWERS ONLY)
					1. Brand
					2. Energy Rating (wattage)
					3. BTU
					4. Added Features
					5. Material
					5. Country of manufacture
					6. Color
					7. Safety
					8. Price
					9. Professional Reviews
					99. Other (specify)

Module L: Behavior

INTERVIEWER TO SAY: Now, we would like to know a few details regarding your general behaviour related to ironing, washing clothes etc.

W2_L.1		
ASK: All Respondents	TYPE: Single Selection	

Which of the following best describes your behaviour of ironing clothes?

- 1. We iron the clothes weekly.
- 2. We iron our clothes twice a week.
- 3. We iron the clothes daily.
- 4. We iron when and where the need arises.
- 5. We don't iron clothes.

3. Never

W2_L.2		
ASK: All Respondents	TYPE: Single Selection	

Which of the following is true regarding drying the clothes that you wash under normal conditions?

- 1. We don't use the dryer / in-built dryer in the washing machine to dry our clothes, we dry them out naturally (sunlight)
- 2. If we use the washing machine, we use the in-built dryer to dry our clothes.
- 3. We always use the dryer / in-built dryer in the washing machine to dry our clothes, irrespective of how they were washed.

W2_L.3		
ASK: All Respondents	TYPE: Single Selection	
Which of the following best desc	ribes your behaviour regarding ni	ght lighting considering the

- whole house?
 - 1. We don't keep any of the lights on when sleeping.
 - 2. We keep one or two-night lights on when sleeping.
 - 3. We keep more than two lights on when sleeping

W2_L.4			
ASK: All respondents	TYPE: Single Selection	Ref: RECS – Energy Assistance	
How often do you and your household members switch-off unnecessary lights when leaving a			
room?			
1. Always			
2. Sometimes			

W2_L.5		
ASK: All respondents	TYPE: Single Selection	Ref: RECS – Energy Assistance
How conscious are you and y	our household members about r	educing the number of times you
open and close the refrigerat	or?	
 Very conscious 		
2. Somewhat conscious		
3. Not conscious at all		

W2_L.6		
ASK: All Respondents	TYPE: Single Selection	
When buying appliances, do you and your household members look at the wattage (or the energy rating) for energy saving purposes?		
1. Yes		
2. No		

Module H: Monthly expenditure

In this final section, I am going to ask you a couple of questions regarding education and the occupation of the chief wage earner of your household and about the household expenses. The objective of these questions is to classify respondents and look at the data among different categories of respondents based on household expenditure.

W2_H.4		
ASK: All Respondents	TYPE: Fill in	
What is the total expenditure of	your household in the last month	? Please consider the spending
by all members in your househo	ld. Please include all types of expe	enses, such as food items that
you or your household members bought such as rice, coconut, chillies, sugar, prepared food that		
you'll bought from outside, you and your household members' spending on personal care		
products such as soaps, shampoo, toothpaste etc., expenses on laundry products such as washing		
powder, washing soap, expenses on travelling, on education such as school fees or tuition fees		
etc., bill payments such as electr	icity bill, water bill phone bill etc.,	your spending on clothes etc.

W2_H.5		
ASK: All Respondents	TYPE: Single selection	INS. TO INT.: SHOWCARD
As you know, we are doing this study regarding the electricity consumption. Therefore, can you		
please tell me what type of electricity meter do you have at home? Is it a smart meter or a non-		
smart meter?		
1. Smart meter		
2. Non smart meter		

Module J: Information on re-contacting

HH Expenses for last month:

W2_J.1a			
ASK: All Respondents	TYPE: Fill in		
As a part of our quality control process, we may have to re-contact you which will not take more than 5 minutes. Can you please share a contact number on which we can contact you?			
Name of respondent:			
Address of respondent:			
Contact no. of respondent.:			

W2_J.1		
PROG. INST.: DISPLAY THE LIST	TYPE: Single Selection	
OF HOUSEHOLD MEMBERS		
INST. TO INTERVIEWER: DO		
NOT ASK. CODE THE NAME OF		
THE RESPONDENT		
Name of respondent:		

W2_J.2		
ASK: All Respondents	TYPE: Single Selection	
Is it ok if we take a photograph of the household?		
2. Yes à PROG. INSTRUCTIONS – ALLOW THE INTERVIEWER TO TAKE A PHOTOGRAPH OF		
THE HOUSEHOLD.		
0. No à INS. TO PROG: GO	TO W2_J.3.	

W2_J.3	}		
ASK: Al	l Respondents	TYPE: Single Selection	
INST. T	O INTERVIEWER: DO NOT	ASK. RECORD.	
Please code the in interview status.			
2.	Completed.		
2.	Not completed		
3.	Discarded		

W2_J.6		
INSTRUCTIONS TO	TYPE: Multiple selection	
PROGRAMMER: DISPLAY FOR		
ALL RESPONDENTS		

INSTRUCTIONS TO INTERVIEWERS: DO NOT ASK. RECORD.

Language that interview was conducted in

INSTRUCTIONS TO INT.: Select all languages in which the interview was conducted. This includes instances where substantive parts of the questionnaire have been verbally translated into a local language to be better understood by the respondent. More than 1 language can be selected.

- 3. Sinhala
- 4. Tamil

W2_J.7		
ASK: RECORD FOR ALL	TYPE:	
RESPONDENTS		
Record the GPS of the location.		

INTERVIEWER TO SAY: This is the end of this survey. Thank you for all the information given by you. Also, as mentioned earlier, there will be one more interview which will be in <MENTION MONTH>. We will contact you beforehand to book a time with you. Thank you.

WAVE 3 QUESTIONNAIRE

Module A: Geographic and Related Information

This module is designed to collect information about the location and geographic attributes of the household and is not intended to be posed as questions to the participants.

A.1		
Do not ask. Interviewer to	TYPE: Fill in	
enter the unique ID of the		
customer and the rest of the		
information to be auto filled		
from the LECO database		
g) Unique ID of LECO custo	mer (to be entered by the intervie	ewer)
INSTRUCTIONS TO PROGRAMMER: THE FOLLOWING INFORMATION TO BE AUTO-CODED		
BASED ON THE LECO CUSTOMER DATABASE AND THE UNIQUE NUMBER ENTERED BY THE		
INTERVIEWER		
h) Province (to be auto cod	ed from the LECO database)	
i) District		
i) LECO Branch		

Module SC: Screener

k) LECO CSC areal) Meter type

Introduction

INSTRUCTIONS TO INTERVIEWERS:

ASK TO SPEAK TO THE SAME PERSON TO WHOM WE SPOKE IN WAVE 1/ WAVE 2. IF HE / SHE IS NOT AVAILABLE, CONTACT THE SECOND-MOST KNOWLEDGEABLE PERSON REGARDING HOUSEHOLD DETAILS.

IF BOTH ARE NOT AVAILABLE, THE HOUSE SHOULD BE REVISITED AT A LATER TIME (THE TIME OF DAY BEING DIFFERENT TO THE TIME THAT THE FIRST VISIT WAS MADE; INQUIRE FROM OTHER MEMBERS AS TO THE TIME THE RELEVANT PERSON WILL BE HOME.

INTERVIEWER TO READ:		
Hello, my name is interviews with you/ your hous consumption. As mentioned to	ehold member for this survey r	regarding electricity
to conduct the last interview to	oday.	
This study is conducted together partnered with LIRNEasia for the customers.		_
W3 SC.1a		1
DO NOT ASK. RECORD BELOW	TYPE: Single Selection	

Are you talking to the same respondent as in wave 1 and / or wave 2 or is it a different member of the household?

- 1. Same respondent as in wave 1 / wave 2
- 0. A different respondent compared to wave 1 / wave 2

W3_SC.1b		
PROG. INST.: DISPLAY THE	TYPE: Single Selection	
LIST OF HOUSEHOLD		
MEMBERS		
INST. TO INTERVIEWER: CODE		
THE NAME OF THE		
RESPONDENT		
Name of respondent:		

W3_Sc.2		
ASK: IF W3_SC.1a = 0	TYPE: Single Selection	

Are you able to accurately tell me about the details related to the household?

- 3. Yes
- 0. No \rightarrow INT. INSTRUCTIONS: seek out suitable respondent (the respondent who was interviewed in W1 and / or W2); if not available, inquire as to when either of them will be available or revisit at that time. Make at least 3 attempts to meet the respondent. Continue to W3_Sc.3 and terminate.

W3_Sc.3		
ASK: All Respondents	TYPE: Single Selection	
Record number of attempts that have been made to meet with this household respondent.		
1. 1 st Attempt		
2. 2 nd Attempt		
3. 3 rd Attempt		

Module CS: Consent form

As mentioned, we are conducting this survey among LECO customers on their electricity consumption habits and usage. This survey consists of three rounds where we will conduct three interviews with you. This is the third interview.

If you agree, we would like to ask you some questions regarding your household and the electricity consumption at your household. This will take about 60 minutes in total.

If you choose to participate, please be assured that all the information given by you will be kept totally confidential. This information will be combined with similar information from thousands of other people in to look at the average behaviour across society. There are no obvious physical, legal, or economic risks associated with participating in this study because your information will not be used in an identifiable manner.

Further, based on your consent, LECO will provide your past electricity consumption data to LIRNEasia.

Participation in this survey is voluntary. You may decline from answering any question at any time. You may also ask questions at any time. You may terminate your participation at any time. However, we hope that you will take part in this survey since your participation is important.

W3_Cs.1		
ASK: All Respondents	TYPE: Single Selection	
Do you consent to participate ir	this study and to provide your dat	a to LIRNEasia?
3. Yes		
0. No → TERMINATE.		

W3_Cs.2		
ASK: All Respondents	TYPE: Single Selection	
May we audio record some parts of this interview for quality checking purposes?		
3. Yes		
0. No		

Module EM: Electricity Meter Details

INTERVIEWER TO SAY: First, we would like to know whether there has been any changes to your household – i.e., the structure and the ownership of the household and the number of electricity meters.

W3_EM.1			
ASK: All Respondents	TYPE: Single Selection	Ref: RECS-Your Home	
Have you obtained any new electricity meter/s since we did the last survey?			
1.Yes → GO TO W3_EM.2			
0.No → INST. TO PROGRAMMER: DISPLAY DEFINITION OF HOUSEHOLD			

W3_EM.2			
ASK: W3_EM.1 = 1	TYPE: Fill in		
Please tell me how many electricity meters are there in your house now?			
No. of electricity meters:			
INST. TO PROGRAMMER: ALLOW ONLY INTEGER NUMBERS. THE NUMBER HAS TO BE GREATER			
THAN 1			
INST. TO PROGRAMMER: DISPLA	AY DEFINITION OF HOUSEHOLD		

DEFINITION OF HOUSEHOLD

INTERVIEWER TO SAY: As in last time, for the purpose of this survey, we are defining the house as the area covered by the electricity meter. Therefore, when answering the questions, please consider only the household area that is covered by the electricity meter which is billed to the address _____ (PROG: TO DISPLAY THE ADDRESS OF THE HOUSEHOLD). Please consider all areas such as living rooms, bedrooms, kitchen, washrooms, toilet etc. including the garden areas which are covered by this meter. However, if there are areas within the household which are covered by any other electricity meters, please do not

consider these parts of the household when answering these questions. For example, if there is a room in the household that is covered by another electricity meter or if the upstairs of the house is covered by a separate electricity meter, please do not consider these areas when answering the questions.

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ASK: All Respondents TYPE: Single Selection Ref: RECS-Your Home

Do you or any member of your household own this house or are you living on rent?

- 5. Yes, I or a household member owns it.
- 6. No, I am living on rent and the rent is paid by me or a household member.
- 7. No, I am living on rent and the rent is paid by the employer.
- 8. No, I or any household member does not own or rent this household. We occupy this household without any payment of rent.

W3	(-

ASK: W3 B.1 = 1 TYPE: Single Selection

Do you occupy any of the following people in your house? By house, we mean the area covered by your electricity meter.

- 4. Renters / boarders who are living in your annexe or any other attached place, maintaining separate living conditions but share the same electricity meter.
- 5. Boarders who live in your house using a room/s that is attached to your living conditions.
- 6. I don't occupy any of the above.

W3 C.3b

ASK: IF W3_C.3 = 1 OR 2 TYPE: Single Selection

You said that there are renters / boarders who are living in this house. Can you please tell me whether they were living in this house when we did the previous interviews or did they start living here afterwards?

- 1. They were living in this household from the time when the 2nd interview was done
- 2. They started living in this household after the 2nd interview was done
- 3. Some were there when the second interviews was done, but some came after the second interview

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ASK: IF W2_C.3b = 2 OR 3 TYPE: Multiple Selection

Since when did the new renters / boarder(s) start living in this household?

1. December 2023
2. January 2024
3. February 2024
4. March 2024
5. April 2024
6. May 2024
7. June 2024
1. December 2024
1. October 2024
1. October 2024
1. December 2024
1. December 2024
1. December 2024
1. October 2024
1. December 2024
1. December 2024
1. December 2024
1. Other (specify)

W.	2 1	ɾ		5
	•	·	•	_

ASK: W3 C3 = 1 or 2 TYPE: Single Selection

Which of the following best describes your awareness of the electricity consumption of renters/boarding people? Are you aware of details such as the appliances they use and the number of hours they use each appliance, the times they keep the lights and fans switched on etc.?

- 7. I know all the details about the electricity consumption of the renters/ boarders; i.e.; the appliances they use and the number of hours they use each appliance, the times they keep the lights and fans switched on etc.
- 8. I know some details about the electricity consumption of the renters/ boarders; i.e.; the appliances they use and the number of hours they use each appliance, the times they keep the lights and fans switched on etc.
- 9. I do not know any details about the electricity consumption of the renters/ boarders; i.e.; the appliances they use and the number of hours they use each appliance, the times they keep the lights and fans switched on etc.

Module B: Changes in housing ownership

INTERVIEWER TO SAY: First, we would like to know whether you have done any changes to the household, i.e.; whether you have built any new parts or has dismantled any parts that were there or whether you have done any renovations to your household.

W3_B.5a		
ASK ALL	TYPE: Single Selection	

Has there being any structural changes to your household after we did the 2nd interview with you? By household, we mean the area covered by your electricity meter. i.e.; have there being any additions to the house such as adding a new part to the household like a room etc. or completing a section which was being built at the time we did the first interview or added a new floor etc.? or, have there been any parts of the household which were dismantled?

- 1. Yes, new parts were added only
- 2. Yes, some parts were dismantled only
- 3. Yes, some new parts were added to the household and some parts were dismantled
- 4. No structural changes were done to the household

W3_B.5b			
ASK ALL	TYPE: Single Selection		
Were there any renovations done after we did the 2 nd interview with you?			
1. Yes			
2. No			

W3_B.5 (SHOWCARD)				
ASK: If W3_B.5a = 1, 2 OR 3	TYPE: Single Selection	Ref: HIES		
Which of these best describes your house now?				

- 21. Single House Single Floor
- 22. Single House -Double Floor
- 23. Single House More than 2 floors
- 24. Attached house / Annex.
- 25. Flat
- 26. Condominium/ Luxury apartments
- 27. Twin houses
- 28. Line room/row house

29. Slum / Shanty		
30. Other		

W3_B.7		
ASK: If (W3_B.5a = 1, 2 OR 3) AND	TYPE: Fill in	Ref: RECS-Your Home
(W3_B.5 not equal to 1 or 2)		

How many storeys does your house have?

INSTRUCTIONS TO INTERVIEWERS: This is the number of storeys the house has. if it is an apartment / flat, please do not enter on which floor the apartment/ flat is. (for example, if the apartment/ flat is in the 3rd floor, do not enter 3 here). bit only wnter the number of floors the respondent's unit occupies. For example, if the respondent's unit is located on the 3rd floor but occupies only one floor (i.e.; does not have any connection to an upper floor), then it will be a one storey house. However, if the respondent's unit is located on the 3rd floor and has two floors (i.e.; is connected to the floor above from an internal staircase), then it will be considered as a two storey house.

W3_B.8				
ASK: If W3_B.5a = 1, 2 OR 3	TYPE: Fill in			
	cı .	 	<u> </u>	

Can you please tell me what is the floor area of this household now? i.e.; how many square feet does this household cover? Please remember, when we say household, what we mean is the parts of the household that is covered by the electricity meter.

INSTRUCTIONS TO INTERVIEWERS: If the respondent is not able to state the floor area of the house, prompt him/ her by asking for the length and width of the household.

State the area of your house in square feet.: _____

Module C: Demographics Changes

INTERVIEWER TO SAY: Now we would like to know whether there have been any changes to your household member composition, i.e., whether there has been any changes to the members living in the household.

W3_C.1a (PRELOAD)					
ASK: All Respondents	TYPE: Fill in	Ref: RECS-Your Home			
< INSTRUCTIONS TO PROGRAMN	< INSTRUCTIONS TO PROGRAMMER: PRE-LOAD THE NAMES, GENDER AND AGE OF ALL THE				
HOUSEHOLD MEMBERS STATED	IN THE DEMOGRAPHIC ROSTER IN	WAVE 1 AND WAVE 2 – REFER			
THE BELOW TABLE>					
During the last two interviews w	e had with you , you mentioned th	nat there are			
<instructions programm<="" td="" to=""><td colspan="5"><instructions from<="" household="" members="" number="" of="" pre-load="" programmer:="" td="" the="" to=""></instructions></td></instructions>	<instructions from<="" household="" members="" number="" of="" pre-load="" programmer:="" td="" the="" to=""></instructions>				
WAVE 1 – W1_C.1> members living in the household. Can you please tell me whether there are					
any changes in the composition of members living in the household? i.e.; whether these members					
	r whether they have moved out a	, ,			
	y living abroad or living in some o				
_	usehold. Also, if there are any boa	_			
rent or if you have any maids/ ho	ousekeepers staying in this househ	old, please include them as			
well.					

INTERVIEWER INSTRUCTIONS: PLEASE MARK WHETHER THE HOUSEHOLD MEMBER IS STILL LIVING IN THE HOUSEHOLD OR NOT.

INSTRUCTIONS T	O PROGRAMMER: PRE-LO	OAD THE DATA FOR	R W3_C1.1,	
	L.3a AND W3_C1.3b FROM	I THE HOUSEHOLD	MEMBER	
DETAILS IN W1 A	ND W2			
W3_C1.1 (INSTRUCTIONS TO PROGRAMMER: PRE-LOAD FROM W1 AND W2).	W3_C1.2 (INSTRUCTIONS TO PROGRAMMER: PRE- LOAD FROM W1_C.2.a, W1_C.2.c AND W1_C.2.d.1 IN W1 QUESTIONNAIRE AND W2_C.2.a, W2_C.2.c AND W2_C.2.d.1 IN W2 QUESTIONNAIRE). DO NOT REPEAT THE SAME MEMBER TWICE.	W3_C1.3a (INSTRUCTIONS TO PROGRAMMER: TO BE PRE- CODED AS 'YES' OR 'NO' BASED ON WHETHER THEY WERE PRESENT IN WAVE 1).	W3_C1.3b (INSTRUCTIONS TO PROGRAMMER: TO BE PRE- CODED AS 'YES' OR 'NO' BASED ON WHETHER THEY WERE PRESENT IN WAVE 2).	W3_C1.4 (INSTRUCTIONS TO PROGRAMMER: THIS COLUMN SHOULD BE KEPT OPEN FOR THE INTERVIEWER TO MARK YES OR NO).
Member no.	Name of the member, Gender, Age	Present in Wave 1	Present in Wave 2	Still living in the household
M1	<name> - <gender> - <age></age></gender></name>	Yes	Yes	1. Yes currently lives in 2. temporally not living 3. No, permanently left
M2	<name> - <gender> - <age></age></gender></name>	Yes	No	1. Yes currently lives in 2. temporally not living 3. No, permanently left
M3	<name> - <gender> - <age></age></gender></name>	No	Yes	Yes currently lives in 2. temporally not living 3. No, permanently left
	I		1	I

W3_C.2								
ASK: All Respondents TYPE: Fill in Ref: RECS-Your Home								
Apart from the above-mentioned members, are there any others who are currently living in the household? It could be someone who has come back from abroad or any new additions? It could								
also be a boarder or a domestic help who has started living in the household after <mention 2="" conducted="" fieldwork="" for="" month="" was="" wave="" when="">? If so, how many such members are</mention>								
there?								
please specify the number	of new members.:							

W3_C.3: Demographic Roster

INSTRUCTIONS TO PROGRAMMER: REPEAT THE DEMOGRAPHIC ROSTER INTO NO. OF NEW FAMILY MEMBERS TIMES. (I.E., NUMBER OF MEMBERS STATED IN W3_C.2)

INTERVIEWER TO SAY: Now I would like to know a few details about the members who were not there in the previous rounds but have started living here after the 2nd interview, we had with you.

	W3 C.2.a	W3 C.2.b	W/2 C	W3	\A/2	W3 C.2.e	W3 C.2.f	W2 C2 ~	W3 C.2.	W3 C.2.i	W2 C2:	ASK IF W3 C.2.	: - FCONONAI	CALLY	W3 C.2.n	
	W3_C.2.a	W3_C.2.0	W3_C. 2.c	C.2.d	W3_ C.2.	w3_c.z.e	W3_C.2.1	W3_C.2.g	w3_c.2. h	W3_C.2.I	W3_C.2.j	ACTIVE (CODED		CALLY	W3_C.2.II	
			2.0	C.2.u	d.1				n			ACTIVE (CODED	1,2 UK 3)			
					u.1							W3 C.2.k	W3 C.2.I	W3 C.2.m		
No	Name of	Relationshi	Gender	Year	Age	Ethnicity	Religion	Marital	ASK	ASK ONLY	ASK ONLY IF THE	Main	Daily	Employmen	The electricity consumption	
INO	the	p to the	(SINGL	of	(PRO	(SINGLE	(SINGLE	status.	ONLY IF	IF THE	MEMBER IS AGED 12	occupation.	wage	t status of	can vary based on the time	
	member	head of the	E	birth	G:	ANSWER	ANSWER	(SINGLE	THE	MEMBER IS	YRS OR ABOVE	(SINGLE	owner?	main	that people stay at home.	
	member	household.	ANSW	Dirtii	THIS	ANSWER	ANSWER	ANSWER)	MEMBER	AGED 5 YRS	TR3 OR ABOVE	ANSWER)	(SINGLE	occupation.	Therefore, we would like to	
		(SINGLE	ER)		SHO	,	'	ANSWER	IS AGED	OR ABOVE	Main activity usually	ANSWER)	ANSWER	(SINGLE	know the number	
		ANSWER)	LNJ		ULD		1.Buddhis	1. Never	3 YRS OR	OK ABOVE	engaged in?	1.Legislator,	ANSWER	ANSWER)	of hours stayed at home	
		ANSWER			NOT	1.Sinhala	m	married	ABOVE	Highest	(SINGLE ANSWER)	senior official,	'	ANSWER	during last week for each	
		1. Head of	1. Male		BE	1.511111010		married	ABOVE	level of	(SINGLE ANSWER)	and manager	1. Yes		member.	
		the	1. IVIUIC		ASKE	2.Sri	2.Hinduis	2.Currently	Current	education.	Economically Active	and manage.	0. No	1.Governme	For example, if a member	
		household	2.Femal		D.	Lankan	m	married	attendan	(SINGLE	1.Engaged in economic	2.Professional	0. 140	nt employee	leaves for work at 6.30 in the	
		2.	е		TO	Tamil		(registered)	ce at	ANSWER)	activity/ currently				morning and returns only at	
		Wife/Husba			BE		3.Islam		school or	ANSWER	employed/ engaged in	3.Technician		2.Semi	7.00 in the night, and after he	
		nd	3.Other		CALC	3.Indian		3.Currently	any other	1.Studying/S	own business	and associate		government	returns home, he doesn't go	
		3.			ULAT	Tamil	4.Roman	married	educatio	tudied Grade	2.Retired and obtaining	professional		employee	out again, before he left for	
		Son/daughte			ED		Catholicis	(customary)	nal	1	government/semi-				work, from midnight to	
		r			BASE	4.Sri	m		institutio	2.Passed	government pension	4.Clerk		3.Private	6.30am, he stayed at home	
		4. Son-in-			DON	Lankan Moor/Mu	5.Other	4.Widowed	n. i.e.; is	Grade 1	payment and is	5.Service		sector	for 6 hrs and 30 min. like-	
		law/Daughte			THE	slim	Christian	5.Divorced	he/ she	3.Passed	currently engaged in	worker and		employee	wise, after he returned home	
		r in law 5.Parents of			YEAR	511111	denomina	3.Divorceu	currently	Grade 2	economic activity	shop and		45 1	from work, from 7.00pm till	
		the head of			OF	5.Burgher	tions	6.Legally	doing	4.Passed	(employed elsewhere other than the place	market sales		4.Employer	midnight, he stayed at home	
		the			BIRT	5.5a.gc.		separated	any type	Grade 3	where he/she is	worker		5.Own	for 5 hrs. This means, in total,	
		Household/			Н	6.Malay	6.No		of	5.Passed Grade 4	receiving the pension			account	he has spent 11 hrs and 30	
		spouse			AND		religion	7.Separated	studying?	6.Passed	from / engaged in own	6.Skilled		worker	min at home. If this	
		6. Grandson/			DISP	7.Other		(not legally)	This	Grade 5	business)	agricultural			happened all 5 weekdays, in	
		Granddaugh			LAYE		9.Other		could be	7.Passed	3.Seeking for and	and fishery		6.Contributi	that 5 weekdays, he would	
		ter			D)			8. Not	a degree,	Grade 6	available to work	worker		ng family	have stayed at home for 57	
		7. Other			_			married but	MBA	8.Passed				worker	hrs and 30 min. During	
		relative						lives as a	etc., or	Grade 7	Economically Inactive	7.Craft and			weekends, on Saturday, if he	
		8. Domestic						Family	following	9.Passed	4.Retired - Obtaining	related worker			went out at 10 in the	
		servant/driv er/watcher						9. Other	a course	Grade 8	government/semi-	8.Plant and			morning and came home at	
		9. Boarder						J. Other	like	10.Passed	government pension payment and currently	machine			3pm, and did not go	
		10. Other							CIMA,	Grade 9	not engaged in	operator and			anywhere after that, on	
		10. Other							CIM or a	11.Passed	economic activity (not	assembler			Saturday, he has not being at	
1									vocation	Grade 10 12.Passed	employed elsewhere or				home for 5 hrs. i.e.; he has	
									al	G.C.E.(O/L)	not engaged in any	9.Elementary			stayed at home for 19 hrs.	
									training	13.Passed	own business)	occupation			similarly, on Sunday, if he left	
									course?	Grade 12	5.Retired from the				home at 8am and came at	
										14.Passed	private/semi-	10.Related to			10am, and again left at	
									1.Prescho	G.C.E.(A/L)	government sector and	forces.			4.30pm and returned home	
									ol	or equivalent	does not obtain any	44 N-			at 8.30pm, on Sunday, he	
											pension payment.	11.No			was not home for 2 hrs in the	
									2. School			occupation				

	 			 _	15.Passed	6.Received other		 morning and 4 hrs in the	
				3.Universi	GAQ	pension payments.		evening, i.e.; in total, he was	
				ty	(General Arts	7.Household activities	ĺ	not home for 6 hrs, so, on	
					Qualifying	8.Student		Sunday, he was at home for	
				4.Other	(External)	9.Too old / Disable/	ĺ	18 hrs. This means, that he	
				education	Examination)	unable to work.	ĺ	stayed at home for 11 hrs	
				al	/GSQ	10.Other		and 30 min during each	
				institution	(General			weekday, for 5 days, i.e.; 57	
				5.Vocatio	Science			hrs and 30 min in total during	
				nal/Techn	Qualifying examination)			weekdays, 19 hrs on Saturday	
				ical	16.Passed		ĺ	and 18 hrs on Sunday. i.e.; in	
				Institution	Degree		ĺ	total, he has stayed home for	
				mstitution	17.Passed			57 1/2 hrs + 19hrs + 18hrs,	
				6.Pending	post			i.e.; 94.5 hrs in total.	
				results	Graduate			•	
				G.C.E.	Degree /			(PROG: VALUES CAN BE	
				(O.L / A.L)	Diploma			FROM 0-168)	
				, , ,	18.PhD				
				7.Still a	19.Special			INSTRUCTIONS TO INT.:	
				toddler	Education			PROBE FOR WEEKDAYS AND	
					learning /			WEEKENDS SEPARATELY	
				8.Does	learnt.				
				not	20.No				
				attend	Schooling			INSTRUCTIONS TO INT.:	
								Please use the following –	
							ĺ	15 min = 0.25 hrs	
							ĺ	20 min = 0.33 hrs	
								30 min = 0.5 hrs	
								40 min = 0.66 hrs	
							ĺ	45 min = 0.75 hrs	
								60 min = 1 hr	
								If used 24x7 = 168 hrs	
							 	11 4364 2477 - 100 1113	
							1		

W3_C.3 INTERVIEWER TO SAY: I would also like to know a few details about the other members of the household.

	W3_C.3.a	W3_C.3.j_1 INSTRUCTI ONS TO PROGRA MMER: PRE-LOAD THE NAMES OF THE MEMBERS WHO WERE LIVING IN THE HOUSEHO LD IN WAVE 1 TOGETHE R WITH THEIR MAIN ACTIVITY ENGAGED IN (W1_C.2.j IN WAVE 1) OR (W2_C.2.j IN WAVE 2)	W3_C.3.j INSTRUCTION S TO PROGRAMME R: PRE-LOAD THE NAMES OF THE MEMBERS WHO WERE LIVING IN THE HOUSEHOLD IN WAVE 1 AND / OR WAVE 2 TOGETHER WITH THEIR MAIN ACTIVITY ENGAGED IN (W1_C.2.j IN WAVE 1 OR W2_C.2.j IN WAVE 2). KEEP A NEW COLUMN TO MARK THE MAIN ACTIVITY THE MEMBER IS CURRENTLY	W3_C.3.k W2_C.3.l W2_C.3m			W3_C.3.n INSTRUCTIONS TO PROGRAMMER: PRE-LOAD THE NAMES OF THE MEMBERS WHO WERE LIVING IN THE HOUSEHOLD IN WAVE 1 AND / OR WAVE 2. KEEP SPACE FOR INTERVIEWER TO ENTER THE NUMBER OF HOURS	
			INVOLVED IN.			T .		
Na	Nama	ACK ONLY	ACK ONLY IF		_	_	The electricity reserves the end	
No	Name of the	ASK ONLY IF THE	ASK ONLY IF THE MEMBER	Main occupation.	Daily wage owner?	Employmen t status of	The electricity consumption can vary based on the time that	
(INSTR	member	MEMBER IS	IS AGED 12 YRS			main	people stay at home. Therefore,	
NS TO	(INSTRUC	AGED 12 YRS OR	OR ABOVE	(SINGLE ANSWER)	(SINGLE ANSWER)	occupation.	we would like to know the number	
PROGR	TIONS TO	ABOVE	Main activity	ANSWERI	ANSWERI	(SINGLE	of hours stayed at home during	
AMME	PROGRA		usually engaged	1.Legislator,	1. Yes	ANSWER)	last week for each member.	
R: PRE-	MMER:	Was there	in?	senior official, and	0. No		For example, if a member leaves	
FROM	PRE- LOAD	any change in the main	(SINGLE ANSWER)	manager		1.Governme	for work at 6.30 in the morning	
W1 &	FROM	activity	,	2 Profession		nt employee	and returns only at 7.00 in the	
W2	W1 and W2	usually	Economically Active	2.Profession al		2.Semi	night, and after he returns home,	
	VV2	engaged in? it could	1.Engaged in	27 1		government	he doesn't go out again, before he left for work, from midnight to	
	Wave 1	be a	economic	3.Technician and		employee	6.30am, he stayed at home for 6	
	question	change in	activity/ currently	associate		3.Private	hrs and 30 min. like-wise, after	
	naire : W1_C.2.	jobs, a promotion	employed/	professional		sector	he returned home from work, from 7.00pm till midnight, he	
	a,	etc., or	engaged in own business	4.Clerk		employee	stayed at home for 5 hrs. This	
	W1_C.2.c	started to	2.Retired and	F.C- :		4.Employer	means, in total, he has spent 11	
	AND W1_C.2.	work full- time or	obtaining	5.Service worker and		5.Own	hrs and 30 min at home. If this happened all 5 weekdays, in that	
	d.1	part-time,	government/sem i-government	shop and		account	5 weekdays, he would have	
		or started	pension payment	market sales worker		worker	stayed at home for 57 hrs and 30	
	Wave 2 question	to study full-time, or	and is currently engaged in	WOIKEI		6.Contributi	min. During weekends, on Saturday, if he went out at 10 in	
	naire :	stopped	economic	6.Skilled		ng family	the morning and came home at	
	W2_C.2.	working /	activity	agricultural and fishery		worker	3pm, and did not go anywhere	
	а,		(employed elsewhere other	worker			after that, on Saturday, he has	

elsewhere or not engaged in any own business) 5.Retired from the private/semi-government sector and does not obtain any pension payment. 6.Received other pension payments. 7.Household activities elsewhere or not engaged in any i.e.; 94.5 hrs in total. (PROG: VALUES CAN BE FROM 0-168) INSTRUCTIONS TO INT.: PROBE FOR WEEKDAYS AND WEEKENDS SEPARATELY INSTRUCTIONS TO INT.: Please use the following — 15 min = 0.25 hrs 20 min = 0.33 hrs	W2_C.2 AND W2_C.2 d.1	etc.	than the place where he/she is receiving the pension from / engaged in own business) 3.Seeking for and available to work Economically Inactive 4.Retired - Obtaining government/sem i-government pension payment and currently not engaged in economic activity (not employed	7.Craft and related worker 8.Plant and machine operator and assembler 9.Elementar y occupation 10.Related to forces. 11.No occupation		not being at home for 5 hrs. i.e.; he has stayed at home for 19 hrs. similarly, on Sunday, if he left home at 8am and came at 10am, and again left at 4.30pm and returned home at 8.30pm, on Sunday, he was not home for 2 hrs in the morning and 4 hrs in the evening, i.e.; in total, he was not home for 6 hrs, so, on Sunday, he was at home for 18 hrs. This means, that he stayed at home for 11 hrs and 30 min during each weekday, for 5 days, i.e.; 57 hrs and 30 min in total during weekdays, 19 hrs on Saturday and 18 hrs on Sunday. i.e.; in total, he has stayed home for 57 1/2 hrs + 19hrs + 18hrs	
9.Too old / Disable/ unable to work. 10.Other 9.Too old / Disable/ unable to work. 11.Other 9.Too old / Disable/ unable to work. 12.To old / Disable/ unable to work. 130 min = 0.5 hrs 40 min = 0.66 hrs 60 min = 1 hr If used 24x7 = 168 hrs			government/sem i-government pension payment and currently not engaged in economic activity (not employed elsewhere or not engaged in any own business) 5.Retired from the private/semi-government sector and does not obtain any pension payment. 6.Received other pension payments. 7.Household activities 8.Student 9.Too old / Disable/ unable to work.	y occupation 10.Related to forces.		hrs. This means, that he stayed at home for 11 hrs and 30 min during each weekday, for 5 days, i.e.; 57 hrs and 30 min in total during weekdays, 19 hrs on Saturday and 18 hrs on Sunday. i.e.; in total, he has stayed home for 57 1/2 hrs + 19hrs + 18hrs, i.e.; 94.5 hrs in total. (PROG: VALUES CAN BE FROM 0-168) INSTRUCTIONS TO INT.: PROBE FOR WEEKDAYS AND WEEKENDS SEPARATELY INSTRUCTIONS TO INT.: Please use the following — 15 min = 0.25 hrs 20 min = 0.33 hrs 30 min = 0.5 hrs 40 min = 0.66 hrs 45 min = 0.75 hrs 60 min = 1 hr	

W3_C.4		
ASK: IF W3_C.3 = 1 OR 2	TYPE: Single Selection	

You mentioned that there are renters or boarders living in this household who share the same electricity meter. Which of the following best describes how you charge them for electricity?

- 1. You charge a fixed amount every month for electricity.
- 2. You charge an amount for electricity depending on the variance of the bill.
- 3. You don't charge a specific amount for electricity but charge a fixed amount for all the utilities such as electricity, water etc.
- 4. You don't charge a specific amount for electricity but charge a varied amount for all the utilities such as electricity, water etc. The amount charged varied based on the utility bills
- 5. You don't charge them for electricity consumption

W3_C.6		
ASK: W3 B.1 = 2 OR 3 OR 4	TYPE: Single Selection	

You mentioned that you are living on rent. Which of the following best describes the payment for your electricity consumption?

- 7. You pay the full amount of the electricity bill.
- 8. You pay a fixed amount to the owner every month for electricity.
- 9. You pay a varied amount to the owner every month for electricity. The amount paid varies depending on the variance of the bill.
- 10. You don't pay a specific amount for electricity, but pay a fixed amount for all the utilities such as electricity, water etc.
- 11. You don't pay a specific amount for electricity, but pay a varied amount for all the utilities such as electricity, water etc. The amount paid varies depending on the variance of the utility bills.
- 12. You don't pay the owner for electricity consumption

W3_C.7		
ASK: Ask All	TYPE: Single Selection	

Is there any business activity that is being carried out in any part of this household such as a shop, a communication, your own office etc. for which, electricity is used from the same meter?

- 2. Yes
- 1. No

W3_C.8							
ASK: IF W3_C.7 = 1	TYPE: Single Selection						
What type of business activity is being carried out in this household?							
3. A shop							

- 4. A communication
- 5. Other (specify)

Module D: List of appliances in the household

INTERVIEWER TO SAY:

As mentioned earlier, we are doing this study to get an understanding of what all are related to the electricity consumption. As you know, the electricity consumption depends on the electric appliances used in your household. Therefore, as in the previous time, I'd like to ask a few questions regarding the electric appliances that are there in your household which are in working condition and a few questions on your usage habits of these appliances.

We have with us the list of appliances that you mentioned were there in your household which are in working condition and which, you have used at least once, together with the number of such appliances. As I read out each appliance, can you please tell me whether they are still there in your household in working condition?

W3_D1_0. INS. TO PROG: PRE-LOAD THE TYPE OF APPLIANCE AND THE NUMBER FROM W2 (FROM W2_D1a / W2_D2a) AND FROM W2_D1 / W2_D2)	W3_D1a. INS. TO INTERVIEWERS: PLEASE ASK THE RESPONDENTS WHETHER THERE ARE ANY CHANGES TO THE NO. OF APPLIANCES AND MARK AS YES / NO You mentioned you had (MENTION THE NUMBER OF APPLIANCE) (MENTION THE CORRESPONDING TYPE OF APPLIANCE). Do you still have the same number of (MENTION APPLIANCE TYPE) in working condition?	W3.D2a INS. TO PROG: ASK ONLY IF THERE IS A CHANGE TO THE NUMBER OF APPIANCES IN WORKING CONDITION (W3_D1a = 0) No of appliance of the type? INSTRUCTIONS TO INT.: IF THE APPLIANCE IS NOT THERE ANYMORE, PLEASE ENTER AS '0'	INS. TO PROG: ASK ALL RESPONDENTS ABOUT ALL THE APPLIANCES. ASK SEPERATELY FOR THE NUMBER OF APPLIANCES W3_D3a. Duration of usage in hours during the last week INSTRUCTIONS TO INT.: PROBE FOR WEEKDAYS AND WEEKENDS SEPARATELY INSTRUCTIONS TO INT.: Please use the following — 15 min = 0.25 hrs 20 min = 0.33 hrs 30 min = 0.5 hrs 40 min = 0.66 hrs 45 min = 0.75 hrs 60 min = 1 hr If used 24x7 = 168 hrs (PROG: VALUES CAN BE FROM 0-168)
<appliance type=""> - <no. appliances="" of=""></no.></appliance>	1. Yes 0. No		
<appliance type=""> - <no. appliances="" of=""></no.></appliance>	1. Yes 0. No		

Apart from the above-mentioned appliances, do you have any of these appliances in your household in working condition?

Appliance	Appliance	W3 D1. Do	PROG: ASK W1	D2 AND W1_D3 TOGETHER
category	(INSTRUCTIONS TO INT.:	you have any		OF APPLIANCE BEFORE
	SHOWCARD)	of these		HE NEXT TYPE OF APPLIANCE
	,	appliances in	W3_D2. No	W3_D3. Duration of usage in
	PROG: DISPLAY THE	your	of appliance	hours during the last week
	APPLIANCES THAT WERE	household in	of the type	0 · · · · · ·
	NOT AVAILABLE IN WAVE 2	working		INSTRUCTIONS TO INT.:
	(I.E.; NOT MENTIONED IN	condition		PROBE FOR WEEKDAYS AND
	W3_D1a)	which you		WEEKENDS SEPARATELY
	/	have used at		
		least once?		INSTRUCTIONS TO INT.:
		If you have		Please use the following -
		boarders or		15 min = 0.25 hrs
		those who		20 min = 0.33 hrs
		are living on		30 min = 0.5 hrs
		rent in your		40 min = 0.66 hrs
		household,		45 min = 0.75 hrs
		please		60 min = 1 hr
		include the		If used 24x7 = 168 hrs
		electrical		
		appliances		(PROG: ASK SEPERATELY
		used by them		FOR THE NUMBER OF
		as well.		APPLIANCES)
				(PROG: VALUES CAN BE
				FROM 0-168)
	Refrigerator			
	Separate Freezer			
	Mini Bar			
	Microwave			
	Electric Oven			
	Electric cook tops (induction cookers, Infra-red cookers, hot plates)			
S	Electrical exhaust fan fitted above the			
NCE	oven or the hot plate			
L A	Electric Blender			
PP	Electric grinder			
V	Electric mixer / beater			
=	Electric food processor			
KITCHEN APPLIANCES	Rice cooker			
	Electric Kettle			
	Electric water heater to heat water for drinking purposes			
	Toaster / Sandwich toaster			
	Waffle maker			
	Electric pressure cooker			
	Air fryer			
	Coffee maker			
i		1		

	Electric grill		
	Electric coconut scraper		
	Electric Water filter / water dispenser		
	Dish washer		
	Washing Machine		
	Clothes dryer		
, s:	Electric Iron including electric steam		
N N N N N N N N N N N N N N N N N N N	iron		
A PI	Electric Vacuum Cleaner		
CLEANING APPLIANCES	Electric floor polisher		
~ 4	Electric water gun (used to wash cars etc.)		
	Electric Lawn mower		
	TV		
			PROG: DURATION OF USAGE IS NOT
CE	TV antenna		REQUIRED
ENTERTAINMENT APPLIANCE	Dialog TV / Peo TV / Satellite TV box		PROG: DURATION OF USAGE IS NOT REQUIRED
l PP	Radio		
/ <u> </u>	Bluetooth Speakers		
/EN	DVD / VCD		
2	Gaming console/PlayStation		
TAI	Sound systems (Subwoofer)/Stereo		
ler.	Camera (that needs to be charged using electricity)		INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
N N	Home theater system		TO CHARGE
	Electric musical Instruments (ex.:		
	electric organ, electric guitar etc.)		
	Computers		
	Laptops		INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
	Routers		
	Mobile phone – Smart phones		INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
	Mobile phone – Feature phones		INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
	Mobile phone – Basic phones		INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
	Fixed phones		
ES	Power banks		INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
OFFICE APPLIANCES	Printer		INS. TO INT: NOT REQUIRED TO ASK FOR THE DURATION OF USAGE UNLESS THERE IS A COMMUNICATION CENTRE ATTACHED TO THE HOUSE OR THERE IS A BUSINESS THAT IS BEING CARRIED OUT AT THE HOUSE.
	Scanner		INS. TO INT: NOT REQUIRED TO ASK FOR THE DURATION OF USAGE UNLESS THERE IS A COMMUNICATION CENTRE ATTACHED TO THE HOUSE OR THERE IS A BUSINESS THAT IS BEING CARRIED OUT AT THE HOUSE.
	Fax machines		INS. TO INT: NOT REQUIRED TO ASK FOR THE DURATION OF USAGE UNLESS THERE IS A COMMUNICATION CENTRE ATTACHED TO THE HOUSE OR THERE IS A BUSINESS THAT IS BEING CARRIED OUT AT THE HOUSE.
	Photo Copiers		INS. TO INT: NOT REQUIRED TO ASK FOR THE DURATION OF USAGE UNLESS THERE IS A COMMUNICATION CENTRE

		ATTACHED TO THE HOUSE OR THERE IS A BUSINESS THAT IS BEING CARRIED OUT AT THE HOUSE.
Q ,ç	Hair dryer	
I AN VESS NCE	Hair iron / hair curlers	
HEALTH AND WELLNESS APPLIANCES	Electric shavers	INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
I - <	Electric Exercise Machines	
SECURITY APPLIANCES	Roller door	PROG: DURATION OF USAGE IS NOT REQUIRED
	CCTV camera systems (note to int.: even if there are more than one camera in the system, please consider as 1 CCTV camera system)	PROG: DURATION OF USAGE IS NOT REQUIRED
, APPL	Electric Alarm System	PROG: DURATION OF USAGE IS NOT REQUIRED
URITY	Other Electric Security Systems	PROG: DURATION OF USAGE IS NOT REQUIRED
SEC	Electric Bell	PROG: DURATION OF USAGE IS NOT REQUIRED
IC ES	Electric vehicles (four wheelers) - cars, vans, SUVs)	INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
ELECTRIC VEHICLES	Electric vehicles (two wheelers) - Electric bicycles, scooters	INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
ELE	Electric vehicles (three wheelers)	INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
	Electric Water pump	
	Electric Sewing machine	
	Oxygen filter for fish tank	
	Geyser / Hot water systems for bathrooms which operate from electricity	
	Hot tub	
	Electric Fountain / decorative waterfall	
OTHER APPLIANCES	Emergency Light / re-chargeable torches	INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
	Electric heater (to control room temperature)	
	Humidifier	
	Toys with re-chargeable batteries	INS. TO INT: ASK FOR THE TIME TAKEN TO CHARGE
ΑĀ	Other (specify)	
ΉΞ	Other (specify)	
10	Other (specify)	
	Tabs	

Module E: Changes in the Housing Characteristics

INTERVIEWER TO SAY:

Now I'd like to know a few details about the household. When we say household, we mean the area covered by the electricity meter. If you remember, last time I asked you about the number of rooms in the household and a few details of each. As I read out each room type and the number of rooms of that type that were there when we last interviewed you, please tell me whether there are any changes to the number of rooms/ parts?

If there are rooms or parts of the household that are not directly connected to the house, but is still covered by the same electricity meter such as a separate kitchen or a toilet, please include these as well.

W3_E.5		
AK: All Respondents	TYPE: Fill in	Ref: RECS-Your Home

PROG. INSTRUCTIONS: PRE-LOAD THE TYPES OF ROOMS TOGETHER WITH THE NUMBER OF ROOMS RECORDED IN WAVE 2 FROM W2_E.5. (COLUMN 1 AND 2 IN THE BELOW TABLE)

INSTRUCTIONS TO INTERVIEWERS: READ OUT THE TYPE AND NUMBER OF ROOMS FROM THE BELOW TABLE. IF THE RESPONDENT SAY THAT THERE IS A CHANGE IN THE NUMBER OF ROOMS OF A PARTICULAR TYPE, CODE 'YES' IN W3_E.5c AND ENTER THE NEW NUMBER OF ROOMS IN W3_E.5d. IF THE RESPONDENT SAY THAT THERE IS NO CHANGE IN THE NUMBER OF ROOMS OF A PARTICULAR TYPE, CODE 'NO' IN W3_E.5c.

INSTRUCTIONS TO INTERVIEWERS: A ROOM CANNOT BE REPEATED TWICE. THIS INCLUDES ALL ROOMS INCLUDING KITCHENS, GARDENS, PASSAGES, LIVING ROOMS AND BATHROOMS WHERE THE AGGREGATION EVENTUALLY COVERS THE ENTIRE HOUSE

Type of rooms	Number of	W3_E.5c Are there	W3_E.5d (Prog. Inst.: ASK
	rooms (TO	any changes to the	ONLY IF "1" CODED AT
	BE PRE-	number of	W3_E.5c)
	LOADED)	(room type)?	New no. of rooms
Living room		Yes – 1 No - 0	
Bedrooms		Yes – 1 No - 0	
Kitchen and/ or pantry / dining		Yes – 1 No - 0	
room			
Bathroom and / or toilets		Yes – 1 No - 0	
Storage room		Yes – 1 No - 0	
Other rooms / parts in the house		Yes – 1 No - 0	
including passages, veranda's,			
balconies, staircase etc.			
Garage		Yes – 1 No - 0	
Security Room		Yes – 1 No - 0	
Garden (including the wall		Yes – 1 No - 0	
around the garden, if any)			
Other rooms outside the house		Yes – 1 No - 0	

INTERVIEWER TO SAY: As in the last time, I would like to know a few details about the rooms in your household, especially the number of lights, fans, etc. We would like to know these details because we want to understand the relationship between the usage of lights, fans etc. and the electricity consumption. Let's start from one room and move on to each room in the household.

INSTRUCTIONS TO PROGRAMMER:

- THE FOLLOWING FLOW OF QUESTIONS TO BE ASKED FOR EACH ROOM SEPARATELY.
- EACH ROOM SHOULD HAVE A SERIAL NUMBER. SERIAL NUMBER TO BE OF THE FORMAT "ROOM_NUMBER".

INSTRUCTIONS TO PROGRAMMER – ROOM ROSTER:

- ORDER OF QUESTIONING SHOULD BE AS FOLLOWS:
 - O ASK W3_E.6.a W3_E.6.j_1 FOR ROOM NO. 1
 - O ASK THE LIGHT ROSTER FOR ROOM NO. 1 (IF APPLICABLE, I.E.; W3_E.6.j_1 NOT EQUAL TO '0')
 - O ASK W3_E.6.k FOR ROOM NO. 1
 - O ASK THE FAN ROSTER FOR ROOM NO. 1 (IF APPLICABLE, I.E.; W3_E.6.k NOT EQUAL TO '0')
 - O ASK W3_E.6.I FOR ROOM NO. 1
 - ASK THE AC ROSTER FOR ROOM NO. 1 (IF APPLICABLE, I.E.; W3_E.6.I NOT EQUAL TO '0')
 - O REPEAT ABOVE ORDER FOR EACH ROOM

W3_E.6.a	W3_E.6.a_1	W3_E.6.b	W3_E.6.c_1	W3_E.6.c_2	W3_E.6.d	W3_E.6.e	W3_E.6.f	W3_E.6.h	W3_E.6.i	W3_E.6.j	W3_E.6.j_1	W3_E.6.k	W3_E.6.I
N For what purposes d you mainly use this room? 1. Living roo 2. Bedroom: 3. Kitchen and/ or pan 4. Bathroom and / or toil 5. Storage room 6. Gaming room 7. Servant's Room 8. Visitors' room 9. Passage 10. Veranda 11. Balcony 12. Staircase 13. Garage 14. Security Room 15. Garden 16. Other rooms outsi the house 17. Study room /Offici room 18. Other	household when we did the second interview in <pre> <pre> <pre> <pre> PROGRAMMER INSTRUCTIONS: MENTION THE MONTH WHEN FIELDWORK WAS CONDUCTED FOR WAVE 2>? And were there any changes done for this section of the household? 1. Yes, this was a part of the house when the second interview was done, and no changes were done to this section of the household → GO TO W2_E.6.j 2. Yes, this was a part of the house when the second interview was </pre></pre></pre></pre>	In which storey is this room located? (Define ground floor by zero)	What is the main material used for the roof of this section of the household? 1.Tile 2.Asbestos 3.Concrete 4.Metal Sheet 5.Takaran 6.Cadjun/Pa lmyra/Straw 7.Tent 8.Plastic sheets 9.Other 10. Garden - Not relevant	What type of ceiling does this section of the household have? INSTRUCTI ONS TO INTERVIEW ER: SHOWCAR D 1. No ceiling, just the roof above 2. A convention al ceiling 3. A beamed ceiling 4. A hanging ceiling 5. A polythene cover as a ceiling 6. No ceiling, the concrete slab 7. Wooden ceiling 8. Other 9. Garden – Not relevant	What is the main material used for the floor of this section of the househol d? 1.Cement 2.Teraso 3.Tile 4.Granite 5.Wood (finished) 6.Mud 7.Wood 8.Sand 9.Concret e 10.Other 11. Garden – Not relevant	How many doors are there in this part of the house that let in light and air from the outside? That is, how many doors are there that let in light and air into the room from an external environmen t such as a garden, a balcony or a veranda? INST. TO INT: RECORD THE NUMBER OF DOORS. IF THERE ARE NO DOORS, RECORD AS '0' PROG: KEEP SPACE TO RECORD NUMBER OF DOORS. ACCEPT ONLY INTEGER NUMBERS.	How many windows are there in this part of the house that let in light and air from the outside? That is, how many windows are there that let in light and air into the room from an external environment such as a garden, a balcony or a veranda? INST. TO INT: RECORD THE NUMBER OF WINDOWS. IF THERE ARE NO WINDOWS, RECORD AS '0' PROG: KEEP SPACE TO RECORD NUMBER OF WINDOWS. ACCEPT ONLY INTEGER NUMBERS.	ASK ONLY IF W3_E.6.f > 0 Do you have curtains or blinds for the windows? 1.Yes 0.No 2. Garden - Not relevant	Does this section of the household have natural ventilation other than windows, to allow fresh air circulation? This could be a ventilation hole in the wall or a area with a grill on top of the windows which is not covered by the window pane etc. (SHOWCA RD) 1.Yes 0.No 2. Garden – Not relevant	How many light bulbs do you have in this section of the household? If there are lamp shades etc. which has more than one bulb, but all bulbs switches on with one common switch, please count as one light. Also, if there are table lamps, bed side lamps, lamp shades etc. in this part of the household, please include them as well. IF BATHROOM/ TOILET: INT. TO PROBE — Are there any mirror lights? IF GARDEN: INT. TO PROBE — Are there any garden lights or lights on the wall (thaappaya)? PROG: KEEP SPACE TO RECORD NUMBER OF LIGHTS. ACCEPT ONLY INTEGER NUMBERS	And how many of these bulbs did you use in the last week? PROG: KEEP SPACE TO RECORD NUMBER OF LIGHTS. ACCEPT ONLY INTEGER NUMBERS INS. TO PROG: IF NO. OF LIGHTS NOT EQUAL TO ZERO, REPEAT THE FOLLOWING LIGHT ROSTER FOR NUMBER OF LIGHTS.	How many fans do you have in this section of the household? Please include all types of fans such as ceiling fans, pedestal fans, table fans, exhaust fans, tower fans etc. PROG: KEEP SPACE TO RECORD NUMBER OF FANS. ACCEPT ONLY INTEGER NUMBERS INS. TO PROG: IF NO. OF FANS NOT EQUAL TO ZERO, REPEAT THE FOLLOWING FAN ROSTER FOR NUMBER OF FANS	How many ACs do you have in this section of the household? PROG: KEEP SPACE TO RECORD NUMBER OF ACS. ACCEPT ONLY INTEGER NUMBERS INS. TO PROG: IF NO. OF ACS NOT EQUAL TO ZERO, REPEAT THE FOLLOWING AC ROSTER FOR NUMBER ACS.

Light Roster

	W3_E.6. n	W3_E.6. o	W3_E.6. p	W3_E.6. q
No	What is the type of the	What is the wattage	For how many hours	For how many hours was
	light Bulb out of	(W) of the light?	was this light kept	this light kept switched
	following?		switched on last week	on, during last week
	INST. TO INT: If the	INST. TO INT: If there	during daytime. (8am	during night-time. (6pm-
	respondent is not sure	are lamp shades etc.	– 6pm)?	– 8am)?
	whether the light bulb	which has more than	INSTRUCTIONS TO INT.:	INSTRUCTIONS TO INT.: PROBE
	is a CFL or an LED,	one bulb, but all bulbs	PROBE FOR WEEKDAYS AND WEEKENDS SEPARATELY	FOR WEEKDAYS AND WEEKENDS SEPARATELY
	please code it as CFL	switches on with one	(INSTRUCTIONS TO PROG:	SELYMBRIZE
	(SHOWCARD)	common switch,	VALUE NEEDS TO BE BETWEEN 0 – 70. SHOULD ALLOW	(INSTRUCTIONS TO PROG: VALUE NEEDS TO BE BETWEEN 0 – 98.
		please add up the	DECIMALS)	SHOULD ALLOW DECIMALS)
	1.Incandescent	wattage of all the	INSTRUCTIONS TO INT.: Please	INSTRUCTIONS TO INT.: Please use
	2.CFL	bulbs and record	use the following –	the following –
	3.LED	below.	15 min = 0.25 hrs	15 min = 0.25 hrs
	4.Halogen		20 min = 0.33 hrs 30 min = 0.5 hrs	20 min = 0.33 hrs 30 min = 0.5 hrs
	5.Tube Light	INS. TO INT.: IF THE	40 min = 0.66 hrs	40 min = 0.66 hrs
	(conventional)	RESPONDENT DOES	45 min = 0.75 hrs 60 min = 1 hr	45 min = 0.75 hrs 60 min = 1 hr
	6.Tube Light (LED)	NOT KNOW THE	Total number of hours per day	Total number of hours per day from
	7.Flashlight	WATTAGE, PLEASE	from 8am – 6pm = 10 hrs If used every day from 8am-6pm	6pm – 8am = 14 hrs If used every day from 6pm – 8am =
	8.Flood light	MARK AS "0".	= 70 hr	98 hrs
	9. Other			
	2 2 3 1 2 2			
-				

Fan Roster

I all IX			
	W3_E.6.r	W3_E.6.s	W3_E.6.t
No	What is the type of the fan? (SHOWCARD) 1.Ceiling fan 2.Wall fan 3.Pedestal fan 4.Table fan 5.Exhaust fan 6.Tower fan 7.Other	For how many hours was this fan kept switched on last week during daytime. (8am – 6pm)? INSTRUCTIONS TO INT.: PROBE FOR WEEKDAYS AND WEEKENDS SEPARATELY (INSTRUCTIONS TO PROG: VALUE NEEDS TO BE BETWEEN 0 – 70. SHOULD ALLOW DECIMALS) INSTRUCTIONS TO INT.: Please use the following – 15 min = 0.25 hrs 20 min = 0.33 hrs 30 min = 0.5 hrs 40 min = 0.66 hrs 45 min = 0.75 hrs 60 min = 1 hr Total number of hours per day from 8am – 6pm = 10 hrs If used every day from 8am-6pm = 70 hrs	For how many hours was this fan kept switched on last week during night-time. (6pm – 8am)? INSTRUCTIONS TO INT.: PROBE FOR WEEKDAYS AND WEEKENDS SEPARATELY (INSTRUCTIONS TO PROG: VALUE NEEDS TO BE BETWEEN 0 – 98. SHOULD ALLOW DECIMALS) INSTRUCTIONS TO INT.: Please use the following – 15 min = 0.25 hrs 20 min = 0.33 hrs 30 min = 0.5 hrs 40 min = 0.66 hrs 45 min = 0.75 hrs 60 min = 1 hr Total number of hours per day from 6pm – 8am = 14 hrs If used every day from 6pm – 8am = 98 hrs

AC Roster

	W3_E.6. u	W3_E. 6. v	W3_E.6. w	W3_E.6. x_2	W3_E.6. y	W3_E.6. z
No	What is the type of air conditioning used in the room? (SHOWCARD) 1. Central AC (Only to your Household) 2. Central AC (For the whole building. Relevant if B.5 = 5 or 6) 3. Individual AC with two components 4. Individual AC with one component 5. Air Cooler 6. Other	IF W2_E.6 .u = 3 or 4 Is the AC an inverter AC? 1.Yes 0.No	Which of the following is true regarding air conditioners? 1. The room can be fully closed and sealed and there are no outside openings. When the AC is turned on, the cool air does not go out of the room. 2. The room is fully closed. However, it is not fully sealed. Therefore, when the AC is on, the cool air may leak through the spaces that are not sealed such as the space inbetween the door and the door frame 3. The room is not fully closed. There are spaces where the cool air can leak out	What is the BTU of the AC? INS. TO INT - IF THE RESPOND ENT DOES NOT KNOW THE BTU, MARK AS "0"	For how many hours was this AC kept switched on, last week, during daytime? (8am – 6pm)? INSTRUCTIONS TO INT.: PROBE FOR WEEKDAYS AND WEEKENDS SEPARATELY (INSTRUCTIONS TO PROG: VALUE NEEDS TO BE BETWEEN 0 – 70. SHOULD ALLOW DECIMALS) INSTRUCTIONS TO INT.: Please use the following – 15 min = 0.25 hrs 20 min = 0.33 hrs 30 min = 0.5 hrs 40 min = 0.66 hrs 45 min = 0.75 hrs 60 min = 1 hr Total number of hours per day from 8am – 6pm = 10 hrs If used every day from 8am-6pm = 70 hrs	For how many hours was this AC kept switched on last week, during night-time. (6pm – 8am)? INSTRUCTIONS TO INT.: PROBE FOR WEEKDAYS AND WEEKENDS SEPARATELY (INSTRUCTIONS TO PROG: VALUE NEEDS TO BE BETWEEN 0 – 98. SHOULD ALLOW DECIMALS) INSTRUCTIONS TO INT.: Please use the following – 15 min = 0.25 hrs 20 min = 0.33 hrs 30 min = 0.5 hrs 40 min = 0.66 hrs 45 min = 0.75 hrs 60 min = 1 hr Total number of hours per day from 6pm – 8am = 98 hrs

W3_E.7						
ASK: All Respondents	TYPE: Single Selection					
Are there any other parts of the	household which are covered by t	the same electricity meter which				
were not covered above?						
1. Yes à INST. TO PROG: GO TO W3_E.7a						
0. No à INST. TO PROG: GO TO W3 E.8						

W3_E.7a						
ASK: Ask if W3_E.7 = 1	TYPE: Fill in	Ref: RECS-Your Home				
Can you please tell me which pa	Can you please tell me which parts of the house you have missed mentioning earlier? Please					
mention only the parts you have	missed and to which, electricity	is supplied from the same				
electricity meter?						
INST. TO INT: PLEASE STATE ON	LY THE NUMBER OF ROOMS/ PA	RTS OF THE HOUSEHOLD WHICH				
WERE MISSED BY THE RESPOND	DENT EARLIER.					
Living room						
Bedrooms	Bedrooms					
Kitchen and/ or pantry / dining r	oom					
Bathroom and / or toilets						
Storage room						
Other rooms / parts in the house	e including passages, veranda's, b	alconies, staircase etc.				
Garage	Garage					
Security Room						
Garden (including the wall around the garden, if any)						
Other rooms outside the house						

INTERVIEWER TO SAY: Now I'd like to ask you the details about these parts of the household.

INST. TO PROG: REPEAT THE HOUSEHOLD ROSTER (W3_E.6.a – W3_E.6. z) FOR THE TOTAL NUMBER OF ROOMS IN W3 E.7a

W3_E.8a						
ASK: IF W3_B.5a = 2 OR 3 TYPE: Single Selection						
Are there any sections of the ho	Are there any sections of the household that were there when we did the second interview, but					
has been demolished now?						
1. Yes						
0. No						

W3_E.8b					
ASK: Ask if W3_E.8a = 1	TYPE: Fill in		Ref: RECS-Yo	our Home	
Can you please tell me which par	rts of the house were der	nolished	after we did t	the second interview?	
And how many such parts were of	demolished?				
INST. TO INT: PLEASE STATE ON	LY THE NUMBER OF ROO	MS/ PAF	RTS OF THE H	OUSEHOLD WHICH	
WERE DEMOLISHED AFTER THE	SECOND INTERVIEW.				
Part of the HH		Demoli	shed or not	No. of parts / rooms demolished	
Living room					
Bedrooms					
Kitchen and/ or pantry / dining re	oom				
Bathroom and / or toilets					
Storage room					
Other rooms / parts in the house	including passages,				
veranda's, balconies, staircase et	ic.				
Garage					
Security Room					
Garden (including the wall aroun	d the garden, if any)		•		
Other rooms outside the house					

W3_E.8c		
ASK: All Respondents	TYPE: Single Selection	
Are there any constructions or re	enovations happening in this hous	ehold currently?
1. Yes		
0. No		

MODULE E-2: OTHER METHODS OF GENERATING ELECTRICITY AND BACKUP ELECTRICITY

INTERVIEWER TO SAY:

Now I would like to know a few details about other methods that you may be using to generate electricity at your household. As we are interested in the electricity consumption of your household, it is also important for us to know whether you use electricity from the LECO supply only or whether there are any other methods that you use at your household to generate electricity such as generators and solar panels

W3_E.10		
ASK: All Respondents	TYPE: Single Selection	Ref: RECS – Energy Bills
Does your household have a backup generator to generate electricity if needed?		
1.Yes		
0.No		

W3_E.18			
ASK: DO NOT ASK. PROGRAMMER TO PRE-LOAD FROM WAVE 2	TYPE: Single Selection		
INSTRUCTIONS TO PROGRAMMER: PLEASE PRE-CODE BASED ON THE ANSWER TO W2 E.19 OR			
W2_E.20a			
Did the household had solar energy when the 2 nd interview was done? 1. Yes → INSTRUCTIONS TO PROG.: GO TO W3_E.20a			
0. No → INSTRUCTIONS TO PROG.: GO TO W3_E.19			

W3_E.19		
ASK: ONLY IF W3_E.18 = 0 TYPE: Single Selection		
Do you have a solar panel to generate electricity at your home?		
1. Yes → INSTRUCTIONS TO PROG.: GO TO W3_E.13		
0. No → INSTRUCTIONS TO PROG.: GO TO MODULE N		

W3_E.20a		
ASK: ONLY IF W3_E.18 = 1 TYPE: Single Selection		
You mentioned that you have solar panels to generate electricity when we did the second		
interview. Do you still have it?		
1. Yes → INSTRUCTIONS TO PROG.: GO TO W3_E.20b		
0. No → INSTRUCTIONS TO PROG.: GO TO MODULE N		

W3_E.20b		
ASK: ONLY IF W3_E.20a = 1 TYPE: Single Selection		
Have you done any changes to the number of panels in the solar panel at your household after we		
did the second interview? i.e.; have you increased or reduced the number of panels?		
1. Yes, we have increased the number of panels		
2. Yes, we have reduced the number of panels		
3. No, we have not done any changes to the number of panels		

W3_E.13	
ASK: If W3_E.19=1 OR W3_E.20b = 1, 2 OR 3	TYPE: Single Selection
Is your solar system on-grid or off-grid?	
1. On-grid	
2. Off-grid	
9. Don't know /Can't say	

W3 E.14

ASK: If W3 E.20a=1 OR W3 E.19=1 TYPE: Single Selection

Do you have an inverter for the solar energy generation system? An inverter is a device that converts direct current (DC) electricity, which is what a solar panel generates, to alternating current (AC) electricity, which the electrical grid uses

- 3. Yes
- 2. No

W3 E.12

ASK: If W3 E.13 = 2

TYPE: Multiple Selection

Which of the following purposes do you use solar energy inside your house?

- 9. Water heating
- 10. Cooking
- 11. Outdoor lighting
- 12. Car charging
- 13. Agriculture equipment and systems (irrigation systems, etc)
- 14. All the above
- 15. Other

W3 E.15a

ASK: If W3 E.20a=1 OR W3 E.19=1 TYPE: Single Selection

Are you aware of the number of units generated by the solar energy system in the last one month?

- 1. Yes
- 0. No

VV3 E.13U	W	3 E	.15	b
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ASK: W3 E.15a=1

TYPE: Fill in

How many units did the solar system generate last month?

No. of units:

W3 E.15c

ASK: If W3_E.20a=1 OR W3_E.19=1 | TYPE: Fill in

What is the capacity of the solar system in your household?

Capacity:

Module N: Behavior

INTERVIEWER TO SAY: Now, we would like to know a few details regarding your general behaviour related to use of electrical devices etc.

W3_N.1		
ASK: All Respondents	TYPE: Single Selection	

Have you and your household members consciously reduced or stopped using any electrical appliance, i.e.; consciously switched off or stopped using electrical devices such as fans, electric rice cookers, kettles, ovens etc.?

- 1. Yes, always consciously reduce/ stop using some appliances
- 2. Yes, sometimes consciously reduce/ stop using some appliances
- 1. No, never consciously reduce/ stop using some appliances

W3 N.2

ASK: IF W3 N.2 = 1 TYPE: Single Selection

Which appliances / devices have you and your household members have reduced or stopped using consciously?

INSTRUCTIONS TO INT.: DO NOT READ OUT LIST. MARK ALL APPLIANCES/ DEVICES MENTIONED BY THE RESPONDENT.

PROBE: Any other devices that you and your family members have reduced or stopped using?

- 1. TV
- 2. Electric rice cookers
- 3. Electric kettles
- 4. Washing machines
- 5. Fans
- 6. ACs
- 7. Oven
- 8. Microwave
- 9. Electric cook tops
- 10. Electric blender
- 11. Electric grinder
- 12. Electric iron
- 13. Radio
- 14. Gaming console/PlayStation
- 15. Computer
- 16. Laptop
- 17. Tabs
- 18. Hair dryer
- 19. Electric shavers
- 20. Electric Sewing machine
- 21. Geyser / Hot water systems for bathrooms which operate from electricity
- 99. Other (specify)

W3 N.3

ASK: All Respondents TYPE: Single Selection

Do you or your household members switch off the refrigerator as a habit at specific times of the day? This does not include switching off the refrigerator when there is lightning etc.

- 1. Yes
- 2. No

W3	N.	л
VV 3	IV.	4

ASK: All Respondents TYPE: Single Selection

To what extent do you agree with the statement "We usually replace the old electric appliances and buy new ones without waiting till the appliance is unusable"?

- 1. Very much disagree
- 2. Somewhat disagree
- 3. Neither agree nor disagree

- 4. Somewhat agree
- 5. Very much agree

Module P: Awareness of "Time of use metering"

INTERVIEWER TO SAY: Now, we would like to ask you a few questions on "Time of use metering".

W3_P.1		
ASK: All Respondents	TYPE: Single Selection	
Have you heard of "Time of	use metering"?	
1. Yes		
0. No		

W3_P.2		
ASK: IF W3_P.1 = 1	TYPE: Single Selection	
Have you or your household use	e "Time of use metering"?	
1. Yes		
0. No		

W3_P.3		
ASK: IF W3_P.2 = 1	TYPE: Single Selection	
Has the use of "Time of use metering" reduced your electricity bill considerably? i.e.; reduced		
your electricity bill at least by 20)%?	
1. Yes		
O No		

W3_P.4		
ASK: IF W3_P.2 = 0	TYPE: Single Selection	

Why have you not used "Time of use metering"?

- 1. I wanted to apply but couldn't do it yet
- 2. Don't think there is any considerable reduction in the electricity bill by using "Time of use monitoring"
- 3. I don't know how to apply for it
- 4. Other (specify)

W3_P.5		
ASK: IF W3_P.1 = 0	TYPE: Single Selection	

The "Time of use metering" is a way of measuring electricity consumption separately according to the different times of day. The day is divided into 3 periods; peak, day time and off-peak and electricity usage is charged at different rates for the three periods, with a higher rate for the peak, a medium rate for the day time and a lower rate for the off peak time. Apart from the charge based on time period, there is also a fixed charge per month.

If this type of electricity billing was available, would you use it?

- 1. Yes
- 0. No

W3_P.6		
ASK: IF W3 P.5 = 1	TYPE: Single Selection	

You mentioned that if "Time of use metering" was available, that you would use it. Will you be able to shift your usage of electrical appliances to off-peak times in order to gain a considerable reduction (at least a 20% reduction) in your electricity bill?

1. Yes

0. No

Module M: Electricity Billing

INTERVIEWER TO SAY: Finally, I would like to ask you a few questions regarding your electricity bill payment behaviour.

W3_M.1		
ASK: All Respondents	TYPE: Single Selection	
Do you have a target number of units or a target bill value for monthly electricity consumption for		
your household?		
1. Yes		
0 No		

W3_M.2		
ASK: If W3_M.1 = 1	TYPE: Single Selection	
What is your target type?		
1. Number of units		
2. Bill value		
3 Roth		

W3_M.3		
ASK: If W3_M.2 = 1 or 3	TYPE: Fill in	
What was the target maximum number of units for the last month?		
Record the target number of units:		

W3_M.4		
ASK: If W3_M.2 = 2 or 3	TYPE: Fill in	
What was the target bill value fo	r the last month?	
Record the target bill value:		

W3_M.5		
ASK: If the meter is a smart meter	TYPE: Single Selection	Ref: RECS – Energy Assistance
Does any household member view si	mart meter interval data?	
1. Yes		
2. No		

W3_M.6		
ASK: All Respondents	TYPE: Single Selection	
Which of the following can most accurately describe your knowledge in electricity bill calculation?		
1. I am aware of how the bill is calculated.		

- 2. I'm not aware of how the bill is calculated, but a household member is aware
- 3. Neither me, nor my household members are aware of how the bill is calculated

W3_M.7	
ASK: All Respondents	TYPE: Single Selection

Which of the below is true regarding your normal bill payment practice (example given when the bill is Rs 4566)?

- 1. We try to pay the exact amount in the bill (ex: 4566)
- 2. We try to pay a rounded off amount which is mostly lower than the bill (ex: 4500)
- 3. We try to pay a rounded off amount which will cover the whole bill amount (ex: 4600)
- 4. We try to pay a portion of the bill amount that is possible for us (ex: 3500)
- 5. We don't pay the bill regularly/ every month.
- 6. We live on rent and we do not pay directly to LECO.

W3_M.8		
ASK: All Respondents	TYPE: Single Selection	Ref: RECS – Energy Bills
Have you experienced any disconnection in electricity supply due to late payment during the last		
year?		
1. Yes		
0. No		

W3_M.9			
ASK: All Respondents	TYPE: Fill in	Ref: RECS – Energy Bills	
Nearly how many red notices did you receive last year from LECO? A red notice is issued for failing			
to settle outstanding bills during a certain period?			
No. of red notices received last year:			

Module H: Monthly expenditure

W2_H.4			
ASK: All Respondents	TYPE: Fill in		
How much did your family spend last month? Please consider the spending by all members in your household. Please include all types of expenses, such as food items that you or your household members bought such as rice, coconut, chillies, sugar, prepared food that you'll bought from			
outside, you and your household members' spending on personal care products such as soaps, shampoo, toothpaste etc., expenses on laundry products such as washing powder, washing soap, expenses on travelling, on education such as school fees or tuition fees etc., your spending on clothes etc.			
HH Expenses for last month:			

W2_H.5		
ASK: All Respondents	TYPE: Single selection	INS. TO INT.: SHOWCARD
As you know, we are doing this study regarding the electricity consumption. Therefore, can you		
please tell me what type of electricity meter do you have at home? Is it a smart meter or a non-		
smart meter?		

- 1. Smart meter
- 2. Non smart meter

Module J: Information on re-contacting

W3_J.1a		
ASK: All Respondents	TYPE: Fill in	
As a part of our quality control process, we may have to re-contact you which will not take more than 5 minutes. Can you please share a contact number on which we can contact you?		
Name of respondent:		
Contact no. of respondent.:		

W3_J.1		
PROG. INST.: DISPLAY THE LIST	TYPE: Single Selection	
OF HOUSEHOLD MEMBERS		
INST. TO INTERVIEWER: DO		
NOT ASK. CODE THE NAME OF		
THE RESPONDENT		
Name of respondent:		

W3_J.2		
ASK: All Respondents	TYPE: Single Selection	
Is it ok if we take a photograph of the household?		
3. Yes → PROG. INSTRUCTIONS – ALLOW THE INTERVIEWER TO TAKE A PHOTOGRAPH OF		

 Yes → PROG. INSTRUCTIONS – ALLOW THE INTERVIEWER TO TAKE A PHOTOGRAPH OF THE HOUSEHOLD.

0. No \rightarrow INS. TO PROG: GO TO W3_J.3

3. Discarded

W3_J.3		
INSTRUCTIONS TO	TYPE: Single Selection	
PROGRAMMER: DISPLAY FOR ALL		
RESPONDENTS		
INST. TO INTERVIEWER: DO NOT ASK. RECORD.		
Please code the in interview statu	s?	
3. Completed.		
2. Not completed		

W3_J.6		

INSTRUCTIONS TO	TYPE: Multiple selection			
PROGRAMMER: DISPLAY FOR				
ALL RESPONDENTS				
INSTRUCTIONS TO INTERVIEWERS: DO NOT ASK. RECORD.				
Language that interview was conducted in				
INSTRUCTIONS TO INT.: Select all languages in which the interview was conducted. This includes				
instances where substantive parts of the questionnaire have been verbally translated into a local language				
to be better understood by the respondent. More than 1 language can be selected.				
5. Sinhala				
6. Tamil				

TYPE:	
	TYPE:

INTERVIEWER TO SAY: This is the end of this survey. Thank you for all the information given by you and thank you for your participation throughout the three waves of this survey.