

Appendix C: Household Questionnaire

   Statistisk sentralbyrå <small>Statistics Norway</small>	CONFIDENTIAL Impact of Access to Sustainable Energy Survey 2021/22																																																																				
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THE NATIONAL BUREAU OF STATISTICS (NBS), TANZANIA STATISTICS NORWAY (SSB)																																																																					
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AA	13	Who do I ask for when I return for the interview?	If enumerator should come back later, make appointment /contact details	Must be visible for the enumerator between interviews	Name	
AA	14	Who is the head of this household ?	The head of the household should be decided by the household members at the start of the interview. Should be 15 years old or more. Only one head per household.		Name	
AA	15	How many of the last 12 months did [NAME], the head of household, reside in the household?			Less than 3 months...1 3-5 months...2 → Skip to AA17 6 months or more...3 → Skip to AA17	
AA	16	Did the head send or bring back any cash or provisions to the household during the last 12 months?			Yes, both in cash and kind...1 Yes, but only in cash...2 Yes, but only in kind...3 No...4	
AA	17	Is the main respondent and the head of household the same person?	The main respondent should be identified by the household members at the start of the interview. Should be 12 years old or more.		Yes...1 → Skip to section AB No...2	
AA	18	What is the name of the main respondent in the household?	Name		Name	

AA20-25 at the end of the questionnaire to be filled in after the interview

Household members - Core demographics						
<p>Now we would like to make a list of all members of the household. We would like you to include members who are temporarily away, but to exclude temporary visitors who are staying less than half the year in the household.</p> <p>AB15 Fill in for all members of the household, Name: Fill in all AB questions for each member. Start with the head of the household as member number '1' e.g. AB1a</p> <p>AB25 Is this the main respondent in the household? Enumerator to fill in:</p> <p>AB35 What is [NAME]'s relationship to the head of the household? Restriction: Only one head per household!</p> <p>AB3b\$ Was [NAME] the head of household 5 years ago?</p> <p>AB45 Is [NAME] male or female?</p> <p>AB55 How old is [NAME]?</p> <p>AB65 What is [NAME]'s current marital status?</p> <p>Write 00 if less than 1 year</p> <p>Completed years</p> <p>Never married...1 Monogamous married...2 Polygamous married...3 Living together...4 Widowed...5 Separated...6 Divorced...7</p>						
1	2	3	4	5	6	7
8	9	10	11	12		

Household members – Education						
<p>For all household member 5 years and older we would like to know about their education.</p> <p>AC15 Can [Name] read and write?</p> <p>AC25 Has [Name] ever attended school?</p> <p>AC35 Did [Name] start school this year?</p> <p>AC45 What grade was [Name] attending this year?</p> <p>AC55 At what age did [NAME] start school?</p> <p>AC65 Is [NAME] currently attending school?</p> <p>AC75 Did [Name] attend school at any time during the previous school year? (2020)</p> <p>AC85 What grade did [Name] attend last school year? (2020)</p> <p>AC95 What is the highest grade of education [Name] completed?</p> <p>Country specific code</p> <p>Kirundi...1 English...2 Kirundi & English...3 Any other language...4 No...5</p> <p>Present short test in English or Kirundi</p> <p>Yes...1 No...2 → Skip to next member of household</p> <p>Yes...1 No...2 → Skip to AC1</p> <p>Yes...1 No...2 → Skip to AC2</p> <p>Completed years</p> <p>Yes...1 No...2 → Skip to AC9</p> <p>Yes...1 No...2 → Skip to AC9</p> <p>Country specific code</p>						
1	2	3	4	5	6	7
8	9	10	11	12		

A Household chores (Cooking) & Employment			Unit: Household members: MemberNo				
	A25	A35	A45	A55	A65	A75	A85
What was [NAME]'s main occupation for the last 12 months?	What was the main activity at [NAME]'s place of work during the last 12 months?	Out of the last 12 months, how many months were [NAME] engaged in this activity?	How many days per month does [NAME] work in this activity?	What was [NAME]'s main occupation 5 years ago?	What was the main activity at [NAME]'s place of work 5 years ago?	How frequently does [NAME] cook food for the household?	
(Codes based on ISIC rev. 4)	Max 12	Max 30	Only for household members 12 years and above 5 years ago	Only for household members 12 years and above 5 years ago	Country specific codes (Codes based on ISIC rev. 4)	Country specific codes (Codes based on ISIC rev. 4)	
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Farm with non-family employees... 01 Farmer with only family members... 02 Farm worker... 03 Non-farm business with non-family employees... 04 Non-farm business with only family employees... 05 Manufacturing... 15 Electricity and water supply... 16 Building and construction... 17 Trade... 18 Repair... 19 Transportation... 20 Accommodation and food service... 21 Information and communication... 22 Financial, professional... 23 administrative and support service Public administration and defence... 24 Education... 25 Healthcare and social work... 26 Arts, entertainment and recreation... 27 Personal service... 28 Domestic service... 29 Embassies and international organizations... 30	Agriculture - crops/forestry... 11 Agriculture - animal husbandry... 12 Fishing... 13 Mining & quarrying... 14 Manufacturing... 15 Electricity and water supply... 16 Building and construction... 17 Trade... 18 Repair... 19 Transportation... 20 Accommodation and food service... 21 Information and communication... 22 Financial, professional, 23 administrative and support service Public administration and defence... 24 Education... 25 Healthcare and social work... 26 Arts, entertainment and recreation... 27 Personal service... 28 Domestic service... 29 Embassies and international organizations... 30	MONTHS	DAYS	Farm with only family employees... 01 Farmer with only family members... 02 Farm worker... 03 Non-farm business with non-family employees... 04 Non-farm business with only family employees... 05 Manufacturing... 15 Electricity and water supply... 16 Building and construction... 17 Trade... 18 Repair... 19 Transportation... 20 Accommodation and food service... 21 Information and communication... 22 Financial, professional, 23 administrative and support service Public administration and defence... 24 Education... 25 Healthcare and social work... 26 Arts, entertainment and recreation... 27 Personal service... 28 Domestic service... 29 Embassies and international organizations... 30	Agriculture - crops/forestry... 11 Agriculture - animal husbandry... 12 Fishing... 13 Mining & quarrying... 14 Manufacturing... 15 Electricity and water supply... 16 Building and construction... 17 Trade... 18 Repair... 19 Transportation... 20 Accommodation and food service... 21 Information and communication... 22 Financial, professional, 23 administrative and support service Public administration and defence... 24 Education... 25 Healthcare and social work... 26 Arts, entertainment and recreation... 27 Personal service... 28 Domestic service... 29 Embassies and international organizations... 30	Once a day... 1 A few times in a week... 2 Once a week... 3 A few times in a month... 4 Once a month... 5 Never... 6	
1							
2							
3							
4							

B B B Household characteristics	Now we would like to know more about your dwelling.		
B 1	How many years has the household been living in this community?	Recent 1 if less than 1	Number of years
B 2	What is the type of dwelling?	Examination, check with observation	
B 3	How many households share your dwelling?		Number of households
B 4	Do you own this dwelling?		*Yes... 1 → Skip to B9 No... 2 Partly... 3 None... 4
B 5	Do you use it for free or rent it?		Free and rent... 5 Rented... 6 Owned... 7
B 6	How many rooms (including the kitchen, toilet, and bathroom) does the household occupy?		Recent number of rooms
B 7	The walls of the dwelling are mainly made of what material?	Check with observation	Wood and mud... 1 Wood and thatch... 2 Wood only... 3 Stone only... 4 Stone and mud... 5 Stone and cement... 6 Bricks, planned with cement... 7 Blocks, planned... 8 Bricks... 9 Blasted brick (traditional)... 10 Steel... 11 Cargo container... 12 Plaster or polished wood... 13 Chip wood... 14 Corrugated iron sheet... 15 Asbestos... 16 Rattan bamboo canes... 17 Mud only... 18
B 8	The roof of the dwelling is mainly made of what material?	Check with observation	Wood and mud... 1 Wood and thatch... 2 Stone and cement... 3 Brick tiles... 4 Corrugated iron sheet... 5 Asbestos... 6 Rattan bamboo canes... 7 Plastic canvas... 8 Metal/Chipped floor... 1 Rattan bamboo canes... 2 Wood planks... 3 Plaster or polished wood... 4 Cement tiles... 5 Plastic tiles... 6 Brick tiles... 7 Cement/plastic tiles... 8 No toilet / bush / field... 1 Open pit without slab/Open Pit... 2 Pit latrine (not vaultable)... 3 Dry stones with slab (not vaultable)... 4 Ventilated improved pit latrine... 5 Pour flush toilet... 6 Flush toilet with cistern... 7 Composting toilet / septic latrine... 8
B 9	The floor of the dwelling is mainly made of what material?	Check with observation	Pipe/bone waste... 1 Dug hole latrine... 2 Electric water pump... 3 Protected well spring... 4 Unprotected well spring... 5 River spring... 6 Lake/sea/river... 7 Rain water... 8 Tank/water vendor... 9 Sack water... 10 Drain water... 11 Other... 12 Brick... 13 Add bleach chlorine... 14 Use a water filter... 15 Solar desalination... 16 Let it stand and settle... 17 Other... 18
B 10	What type of toilet facility does your household use?		
B 11	What is your household's main source of drinking water?		
B 12	What do you usually do to make the water safer to drink?		

B	13	What is the main source of energy used for Lighting?		Country specific question code, see right	Electricity (TAKE3C00200), Solar...3 Gas/propane stove...1 Gas/biofuel...4 Electricity (read), Gas/propane stove...1 Gas/biofuel...4 Electricity (TAKE3C00200), Solar...3 Gas/propane stove...3 Gas/biofuel...4 Electricity (read), Panel...7 Gas...1 Diesel...8 Firewood/Wood residue...10 Animal residue...11 See applicable...99	
B	14	What is the main source of energy used for Cooking?		Country specific question code, see right	Electricity (read), Panel...7 Gas...1 Diesel...8 Firewood/Wood residue...10 Animal residue...11 See applicable...99	
The next questions is about the households use of bank services						
B	15	Does anybody in this household have an account or savings in a bank, credit union, micro-finance bank or mobile banking like m-pesa, m-shwari, M-kash?			Yes...1 No...2 → Skip to #17	
B	16	At which formal institution does this household have an account or savings?	Read options about:		Commercial bank...1 Cooperative credit union...2 Microfinance institution...3 Mobile bank (m-pesa, mshwari, M-kash)...4 Other...11	
B	17	Does anybody in this household participate in a rotating saving scheme or an informal savings institution?			Yes...1 No...2 → #18	
B	18	At which informal institution does this household have an account or savings?	Multiple responses possible	Multiple responses possible	Savings savings (informal)...4 Savings (post office/informal)...5 Other...4	
B	19	If you can get a loan/credit, what are the sources of credit loans?	Multiple responses possible	Multiple responses possible	Commercial government bank...a Cooperative credit union...b Microfinance institution...c Rural bank...d State bank...e NGO...f Business firm...g Employee...h SACCO/Moneylender...i Shop...j Relationship neighbor...k Mobile money service...l Cannot get a loan/credit...m	
B	20	Do you use mobile money to send money to friends and family or to make payments over the mobile phone?			Yes...1 No...2 → Skip to next section	
B	21	Have you used the account in the past 90 days?			Yes...1 No...2	Receive money from family/friends/other...a Transfer credit or money to family/friends/other...b Top up credit...c Receive NGO/state support...d Pay for Electricity...e Pay for Water...f Internet top-up credit...g Commercial purchases...h Insurance...i Loan payments...j Savings...k Get small loans from mobile provider...l Other...2
B	22	How do you use the mobile money services?	Multiple responses possible	Multiple responses possible		
C	C	Supply and demand of electricity				
C	1	The respondent for the next section should be the most knowledgeable household member on household electricity. Are you well informed about this area or would you like to have somebody else in the household to answer these questions?	Recent Respondent/Member/No for this section	Member/No and name from listing of persons 15 years and older	Member	
The next questions is about the use and sources of energy in this household. We start with electricity and then move to other energy sources. First we would like to know if you have any electrical power in this household.						
C	2	Do you have a grid connection?			Yes...1 No...2 → Skip to C4	
C	3	Is this the national grid or a local grid?			National grid...1 Local grid...2 Other...11	
C	4	Do you have any devices or power supply using solar power?			Yes...1 No...2 → Skip to C6	
C	5	What kind of solar power supply do you have?		Multiple answers	Solar home system (SHS) with a separate battery...a Solar multi-light product...b Solar lantern...c Illustrative photo: MULTIPLE ANSWER	

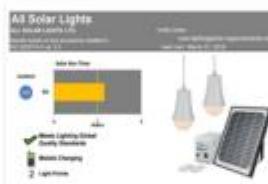
Solar home system comes with a cold standing battery, 2+ light bulb AND mobile charging AND OR radio, television, fan and other appliances



Solar multi-light product comes with integrated battery and will energy to at least one bulb or appliances



Solar lantern comes with only one light bulb



C 8 Do you use an electric generator?

Yes, 1
No, 2

C 7 Do you use gas/hydro power?

Yes, 1
No, 2

C 8 Do you use rechargeable battery that linked to a solar device?

Yes, 1
No, 2

C 8 Do you use dry cell batteries?

Yes, 1
No, 2

III "yes" in C2, C3, C4, C7, C8 and C9 then add to C12
III "no" in C2, C3, C4, C7 and C9 then remove with C12 and add to C11

IV "yes" in C2, C3, C4, C7 and C9 then remove with C12 and add to C11

C 16 Which of these power source is your main electrical power source?

Only solar marine solar
"yes" in C2, C3, C4, C7, C8
and C9, or code 1,2,3 in
C11

Yes, 1
No, 2

Main option about C16 will
not receive mark. So receive and
combine
Main source: Learn this to be the
responsible. If they ask, say that we are
also the source providing most energy.

Only solar marine solar
"yes" in C2, C3, C4, C7, C8
and C9, or code 1,2,3 in
C11

Only and C11 choose
that can "yes" in C2, C3,
C4, C7, C8, C9, Only
choose
"yes" sources in C2,
C3, C4, C7 and C8, or
code 1,2,3 in C11. Answer
in C11 can not be the

Only solar marine solar
"yes" in C2, C3, C4, C7, C8
and C9, or code 1,2,3 in
C11

Yes, 1
No, 2

C 17 Which of these power source is your main back-up source?

Main option about C16:

Only solar marine solar
"yes" in C2, C3, C4, C7, C8
and C9, or code 1,2,3 in
C11

Only solar marine solar
"yes" in C2, C3, C4, C7, C8
and C9, or code 1,2,3 in
C11

C	12	Did you have any electricity five years ago? If yes, which was the main electrical power source in the household?	Main source: Leave this to the respondent. If they say, say that we are also documenting providing most energy.	Personal Grid connection... Local grid connection... Solar panel system... Electric vehicle... PV module... Rechargeable battery (not linked to a solar system)... Solar panel & light fixture... Wind turbine... Type of battery... No electricity... Not applicable... <small>C11-C13 only for those households that are not connected to the grid. If C11 or C13 contains with C10, skip to C14.</small>	
C	13	What is the MAIN reason why your household is not connected to the grid?	Record the MAIN reason.	<small>Grid is not available in the locality... Grid is not yet functioning... Cost of connection is too expensive... Mortgage or lease expenses... Associated with current energy solution... Rising, Landlord decision... Administrative procedure is too complicated... Submitted application and waiting for connection... Company refused to connect the household... Other... Yes... No... Not applicable... Don't know... Less than 6 months... 1-3 years... More than 3 years... Not applicable...</small>	
C	14	Do you expect to get grid connection?			
C	15	When do you expect to get grid connection?	Approximately, when is the household likely to receive "less than 2 years".		
Electricity from National Grid or local grid <small>This section is only for those that have national grid as main source of energy. Before C18, if C19, no I-skip to C20.</small>					
We would now like to ask you some questions about your grid connection.					
C	16	Did (ELECTRICITY COMPANY) connect your household to the grid, did you do it yourself, did someone else do it, or was the house connected when your household moved into this house?	TO/F MAY ANSWER BY OBSERVATION	ELECTRICITY COMPANY Leisure PVESCOOLKA Wiesbaden 1000	<small>(ELECTRICITY COMPANY)... He did it himself... By others... Was connected when they moved in... Don't know... Not applicable...</small>
C	17	How many years have you had this grid connection?	Entered in years, if less than 1 year record 1. Cannot be greater than years lived in community.	Entered in years.	Entered in years.
C	18	How much did your household pay to get connected to the grid?	Entered by observation for ONLY if connected to the grid when the household moved in, record Don't know... 0. For those that rent the dwelling, choose PV.	Local currency Don't know... The dwelling was already connected when household moved in... 0 Not applicable... 0	Entered by observation for ONLY if connected to the grid when the household moved in, record Don't know... 0. For those that rent the dwelling, choose PV.
C	19	How much did your household pay for the rental wiring?	Entered by observation for ONLY if dwelling was already connected to the grid when the household moved in, record Don't know... 0. For those that rent the dwelling, choose PV.	Local currency Don't know... The dwelling was already connected when household moved in... 0 Not applicable... 0	Entered by observation for ONLY if dwelling was already connected to the grid when the household moved in, record Don't know... 0. For those that rent the dwelling, choose PV.
C	20	How many days after you applied for the grid connection did your household get connected?	Entered 0 if less than 1 day	Number of days Don't know... 0	Number of days Don't know... 0
C	21	"How many weeks after you were connected were you able to use electricity in your home?"	Entered 0 if less than 1 week Don't know... 0	Number of weeks Don't know... 0	Number of weeks Don't know... 0
C	22	New we would like to know more about the capacity of your connection. That is limited by the tariff, the fuse or the meter. First we would like to know what kind of tariff do you have?		Country specific tariff D6...1 T1...2 T2...3 T3...4 T5...5 Don't know... 0	
C	23	Does your household have an electric meter jointly with other households or by your own?			Yes, share... Yes, sharing with other households... No... I-skip to C20
C	24	How many households are sharing the meter?			Number of Households
C	25	We would now like to know the capacity of the main fuse. What is the Amperes (A) stated?	The respondent might know that. If not, check the main fuse. Select the highest number of Amperes (A). Capacity is in Amperes (A). A is always below 150. The Voltage is always 220 V (0.23 kV), do not record this.	Range 1-150 Range 1-150	Range 1-150 A Don't know... 0
C	26	We would now like to know the capacity of the meter. What are the watts (W) stated?	Capacity is in Watt (W). Always more than 1000-1kW=1000 W. The Voltage is always 220 V (0.23 kV), do not record this.	Range: more than 1000... 3 digits	Range: more than 1000... 3 digits Don't know... 0
C	27	Is this a pre-paid meter?			Yes... No... 0

			Energy company... 1 Private owner and seller... 2 Community-/Engage municipality... 3 Relative... 4 Neighbor... 5 Landlord... 6 Local shop... 7 Utility office... 8 Bank... 9 Post office... 10 No one... 66 → Skip to C14 Other... 55
C	28	Who receives the payment for your electricity service?	I/C27=1 skip to C33
C	29	Do you have an electricity bill for the last payment?	Respondee: If the respondent pays the energy company or has a record of the electricity payment, ask to see the electricity bill/invoice and use it for C30 and C31 and C32 Record the amount paid from the last bill if available. 8 digits
C	30	How much did you pay the last time you paid?	Local Currency Don't Know... 33 Quantity in Kilowatt Hour (kWh) Don't Know... 33
C	31	How many kWh/Watt-hour (kWh) did you pay for?	Number of weeks All → skip to C14
C	32	How many weeks did the bill cover?	C33-C34 only if C21=1
C	33	How much did you spend the last time you bought electricity?	8 digits Local Currency Don't Know... 33 Number of days Number of kWh Don't Know... 33 Yes... 1 No... 2 Yes... 1 No... 2 Sometimes... 3 No load-shedding in this area... 4 Hours of supply → If hours = 24, then skip to C40, and set C39 to 4.
C	34	How long does this last?	Look at the card or the app. 4 digits
C	35	How many kWh did you pay for? Is the quality of electricity service the same all year?	Load shedding is the set hours of electricity available from the grid for certain customers.
C	36	Do you receive information about a "load-shedding" schedule?	On average max 4 hours max 4 hours
C	37	How many hours was electricity available each day and night from the grid, during the last seven days?	Hours of supply → If hours = 24, then skip to C40, and set C39 to 4.
C	38	How many hours was electricity available each evening, from 6:00 pm to 10:00 pm from the grid, during the last seven days?	On average max 4 hours max 4 hours
C	39	How many outages occurred during the last seven days?	Number of outages/blackouts No outages/blackouts... 66 → Skip to C45 Don't know... 33 → Skip to C45
C	40	What was the total duration of all the outages/blackouts during the last seven days?	Hours Don't know... 33
C	41	Do you have a back up source for lighting?	F Electric generator... 2 Rechargeable battery and storage device (e.g.: car battery)... 3 Solar Lamps... 4 Solar Multi-Light Product... 5 Solar Home System... 6 Pico-hydro... 7 Kerosene paraffin lamp... 8 Fuel-based lighting... 9 Dry-cell (non-rechargeable) battery Track Flashlight... 10 Candles... 11 Other... 55 No back-up source... 66
C	42	If SO: What is your main back-up source of electricity for appliances (including mobile phone charging) during outages/blackouts of the grid?	Electric generator... 2 Rechargeable battery and storage device (e.g.: car battery)... 3 Solar Lamps... 4 Solar Multi-Light Product... 5 Solar Home System... 6 Pico-hydro... 7 Other... 55 No back-up source... 66 Never asked... 1 Yes, and they charged up in a reasonable time... 2 Yes, but it took some time... 3 They never charged up... 4
C	43	Do you have a back up source for electricity for appliances? If SO: What is your main back-up source of electricity for appliances (including mobile phone charging) during outages/blackouts of the grid?	Yes... 1 No... 2 Don't know... 33
C	44	Have you ever asked for assistance in a power failure? And if yes, did they show up?	
C	45	In the last 12 months, did any of your appliances get damaged because the voltage was too high or too low or going up and down from the grid?	Usual signs of this is flickering lights

C	46	What are the MOST serious problem you experience with your grid electricity?		Supply shortages/ enough hours of electricity... 1 Low/high voltage problems or voltage fluctuations... 2 Unpredictable interruptions... 3 Unexpectedly high bills... 4 High cost of electricity... 5 Do not trust the supplier... 6 Cannot prove legal obligations... 7 Maintenance/service problems... 8 Unpredictable bills... 9 Other... 10 No problems... 44
C	47	What are the SECOND most serious problems you experience with your grid electricity?		Supply shortages/ enough hours of electricity... 1 Low/high voltage problems or voltage fluctuations... 2 Unpredictable interruptions... 3 Unexpectedly high bills... 4 High cost of electricity... 3 Do not trust the supplier... 1 Cannot prove legal obligations... 7 Maintenance/service problems... 8 Unpredictable bills... 9 Other... 15 No problems... 44
C	48	In the last 12 months, did any household members have permanent (body injury) damage or even passed away because of the grid electricity?		Yes... 1 No... 2 → Skip to C30
C	49	What was the cause of this injury?		Causes/ness or error... 1 Lack of knowledge about the use of the appliance... 2 Faulty wiring/ connection... 3 Other... 35
C50-C52 only if C3=2				
C	50	Is there a limit for the load and/or appliances you are allowed to power from this local grid?		Yes... 1 No... 2 Don't know... 33
C	51	Were you involved in setting the tariff for the local grid?		Yes... 1 No... 2 → Skip to C31 Consulted by local grid company... 1 Member of electricity committee... 3 Member of committee... 8 Other... 15
C	52	How were you involved in the tariff setting?		
C C Solar power - Solar lantern/ Solar multilight product/ Solar home system				
Only for those that have solar power as MAIN source of electricity. Before C53: If C10 no (3,7 or 8) then skip to C61				
You said that your main source of electrical power is a [DEVICE]. We would now like to ask you some questions about this device. We would like you to consider only devices in working condition. If you have more than one device, think about the MAIN solar device.				
Continue with C53-C61 if C10=5. Others skip to C61.				
C	53	What is the manufacturer and model of the solar home system?	* Read the information plate of the solar panel if available Unknown... 48	Alphanumeric max 12 characters Alphanumeric max 32 characters
C	54	Do you share this solar home system with other households?		Yes... 1 No... 2 → Skip to C56
C	55	How many households share this solar home system?		Number of households don't know... 48
C	56	What is the total power rating of the solar panels (Watt)?	* Read the information plate of the solar panel if available Unknown... 48	Range: 30-400 Quantity in Watt (W). Unknown... 48
C	57	What is the total Amp-hours (Ah) stated on the batteries?	* Read the information plate of the batteries if available. Sum up Ah for all batteries Unknown... 48	Amp-hour (Ah) Unknown... 48
C	58	What is the voltage (V) of the rechargeable batteries?	* If multiple batteries, they usually have the same voltage. Record voltage for the most used battery. Volt (V). Read the information plate of the battery if available Unknown... 48	Range: 3-48 Range: 6-24 Volt Don't know... 48
C	59	What is the total watt hours (Wh) stated on the batteries?	* Read the information plate of the batteries if available. Sum up Wh for all batteries. Unknown... 48	Range: 20-4000 Wh Unknown... 48 Yes... F231 No... 2 → Skip to C62
C	60	Do you have an inverter?	* Given in Watt (W). Read the information plate of the inverter if available Unknown... 48	Watt (W)
C	61	What is the capacity of the inverter?		Range: 5-5000

C	62	*How many years have you had this [DEVICE]?	Record in year, if less than 1, record 1		NUMBER OF YEARS
C	63	Who decided to purchase/ acquire this [DEVICE]?		MemberID	Added 'Person not member of the household anymore' as an 'Bought..._1 → Skip to C46' Received for use..._2 Received from colleague..._3 Local organization (NGO)..._1 Other..._2 Relative/Friend..._4 Other..._5 Other..._6 Other..._7 Other..._8 Other..._9 Other..._10 Other..._11 Other..._12 Other..._13 Other..._14 Other..._15 Other..._16 Other..._17 Other..._18 Other..._19 Other..._20 Other..._21 Other..._22 Other..._23 Other..._24 Other..._25 Other..._26 Other..._27 Other..._28 Other..._29 Other..._30 Other..._31 Other..._32 Other..._33 Other..._34 Other..._35 Other..._36 Other..._37 Other..._38 Other..._39 Other..._40 Other..._41 Other..._42 Other..._43 Other..._44 Other..._45 Other..._46 Other..._47 Other..._48 Other..._49 Other..._50 Other..._51 Other..._52 Other..._53 Other..._54 Other..._55 Other..._56 Other..._57 Other..._58 Other..._59 Other..._60 Other..._61 Other..._62 Other..._63 Other..._64 Other..._65 Other..._66 Other..._67 Other..._68 Other..._69 Other..._70 Other..._71 Other..._72 Other..._73 Other..._74 Other..._75 Other..._76
C	64	How did you get this [DEVICE]?	Read options aloud if needed		'Bought..._1 → Skip to C46' Received for use..._2 Received from colleague..._3 Local organization (NGO)..._1 Other..._2 Relative/Friend..._4 Other..._5 Other..._6 Other..._7 Other..._8 Other..._9 Other..._10 Other..._11 Other..._12 Other..._13 Other..._14 Other..._15 Other..._16 Other..._17 Other..._18 Other..._19 Other..._20 Other..._21 Other..._22 Other..._23 Other..._24 Other..._25 Other..._26 Other..._27 Other..._28 Other..._29 Other..._30 Other..._31 Other..._32 Other..._33 Other..._34 Other..._35 Other..._36 Other..._37 Other..._38 Other..._39 Other..._40 Other..._41 Other..._42 Other..._43 Other..._44 Other..._45 Other..._46 Other..._47 Other..._48 Other..._49 Other..._50 Other..._51 Other..._52 Other..._53 Other..._54 Other..._55 Other..._56 Other..._57 Other..._58 Other..._59 Other..._60 Other..._61 Other..._62 Other..._63 Other..._64 Other..._65 Other..._66 Other..._67 Other..._68 Other..._69 Other..._70 Other..._71 Other..._72 Other..._73 Other..._74 Other..._75 Other..._76
C	65	Who gave you this [DEVICE]?			
C	66	Did you pay full or partial amount for your [DEVICE]?			'Full amount..._1 → Skip to C70' Partial amount..._2
C	67	What is the term period for the payment?	If less than 1 month record 0		Month
C	68	What payment system do you use?			'Mobile Pay-as-you-go..._1' Other Pay-as-you go (scratch card, etc.)..._2 Printed..._3
C	69	What is the monthly payment for this [DEVICE] (installment/ fee to rent/use)?		1 digits	LOCAL CURRENCY
C	70	Did you borrow money to make your payment for [DEVICE]?			'Yes..._1' No..._2
C	71	How much did you pay for this [DEVICE] upfront?		1 digits	LOCAL CURRENCY
C	72	Does this [DEVICE] have a warranty?	Is it exchange or repair if the device does not work.		'Yes..._1' No..._2
C	73	Did you receive some information on the use and maintenance of this [DEVICE]?			'Yes..._1' No..._2
C	74	Are there certain months/seasons every year when the service is not as strong from [DEVICE]?			'Yes..._1' No..._2
C	75	How many hours did you receive service from this [DEVICE] each day and night, during the last seven days?	Max:24 hours	Max:24 hours	Hours of supply Don't know..._10 HCT9 = 24 then skip to C12 and set C76 to 4
C	76	How many hours was service available from this [DEVICE] each evening, from 6:00 pm to 10:00 pm, during last seven days?	Max:4 hours	Max:4 hours	Hours of supply

C	77	What is the most serious problem you experience with [DEVICE]?			Duration of service too short..._1 Too expensive..._2 Cannot power large appliances..._3 Breaks too often..._4 Maintenance and availability of spare parts..._5 Quality of light..._6 Battery problems..._7 Other..._8 No problems..._9
C	78	Is there a service to repair or replace easily available?			'Yes..._1' No..._2
C	79	Can you charge a mobile phone with the [DEVICE]?			'Yes..._1' No..._2
C	80	Does this [DEVICE] have a radio?			'Yes..._1' No..._2
C	81	How many light bulbs are there?			HCT10 = 1 → skip to C19 NUMBER OF LIGHT BULBS 'None/no..._a' '1..._b' '2..._c' '3..._d' '4..._e' '5..._f' '6..._g' '7..._h' '8..._i' '9..._j' '10..._k'
C	82	What appliances do you currently use with your solar device?	Multiple response: Read options aloud one by one.	Multiple response	'Fridge..._a' 'Refrigerator..._b' 'Tablet/laptop/computer..._c' 'Mobile phone charger..._d' 'Other..._e' 'No appliance..._z'
C	83	Is there any appliance you do not have that you would like to have?			'Yes..._1' No..._2 → Skip to C19 Don't know..._10 'Television..._a' 'Fan..._b' 'Radio/phone..._c' 'Tablet/laptop/computer..._d' 'Mobile phone charger..._e' 'Other..._f' 'No appliance..._z' 'Stereo..._g' 'Speaker..._h' 'Computer..._i'
C	84	What appliances would you like to have?	Multiple response (Up to three devices)	Multiple response (Up to three devices)	'Yes..._1' No..._2 → Skip to C19 Don't know..._10 'Television..._a' 'Fan..._b' 'Radio/phone..._c' 'Tablet/laptop/computer..._d' 'Mobile phone charger..._e' 'Other..._f' 'No appliance..._z'
C	85	Are you satisfied with the service provided by the [DEVICE]?			'Satisfied..._1' 'Neutral..._2' 'Unsatisfied..._3'
C	86	In what year did you get your first solar device?			'Yes..._1' Don't know..._10 'Use more solar lighting..._1' 'Use about the same solar lighting..._2' 'Use less solar lighting..._3' → Skip to C19 Don't know..._10
C	87	Compared to the first time period you used solar lighting, do you currently...	Read aloud options		

C	88	What appliances do you use today that you did not use with your first solar lighting device?		Multiple response possible	Multiple response possible	Mobile phone charger...a Radio...b TV...c Fan...d Refrigerator...e No charge...f Other...g
C	C	Electric Generator				
			Before C89-C10 ne 4 then skip to C1112			
C	89	Do you share this generator with other households?	If more than one generator, ask about main generator.		Yes...1 No...2 → Skip to C91	
C	90	How many households are sharing electricity from this generator?	If more than one generator, ask about main generator.		Number of households Don't know...H	
C	91	What is the capacity of the generator?	Capacity is given in Watt (W) or Volt Amps (VA). Enumerator can also observe for confirmation. Read information plate of the MAIN generator.	3 digits	Watt (W) = Volt Amps (VA) - 3 digits Don't know...H	
C	92	In the last 12 months, what did your household use this generator for?	Multiple response possible. Read options aloud if needed.	Multiple response possible	Lighting...a Appliances...b Household income activity...c Other...g	
C	93	In the last 12 months, in which months did you use this generator?	Multiple response possible Record 44 if all year.	Multiple response possible	January...a February...b March...c April...d May...e June...f July...g August...h September...i October...j November...k December...l All year...z	
C	94	In the months you did use the generator, on average, how many days per month did you use this generator?			Number of days Don't know...H	
C	95	How many years have you used this generator?	Record in years, if less than 1 year record 1		Number of Years Don't know...H	
C	96	Does your household own, rent or use the generator for free?			Own the generator...1 Rent the generator...2 Use the generator for free...3	
C	97	In the months that you use it, how much did you pay to use the generator each month?	Do not include any cost of fuel, only fee for using the generator.	8 digits	Local currency Don't know...H	
C	98	In the last 12 months, did you spend anything on repairs/parts/maintenance of the generator?			Yes...1 No...2 → Skip to C100	
C	99	In the last 12 months, how much did you spend?		8 digits	Local currency Don't know...H Diesel...1 Gasoline...2 Other...3 Don't know...H	
C	100	What fuel is used to power the generator?			Liquids Don't know...H	
C	101	In the last 30 days, what was the total quantity of fuel used to power the generator?			Yes...1 No...2 → Skip to C104	
C	102	Is it your household that pays for the fuel used to power the generator?			Local currency Don't know...H	
C	103	In the last 30 days, how much did your household spend on fuel for this generator?		8 digits	Yes...1 No...2	
C	104	Are there certain months/days of the year when less fuel is available to power the generator?			Hours of supply Don't know...H if C105 > 36 → Skip to C107 and on C106-14	
C	105	How many hours did you use this generator each day and night, during the last seven days?	(max 24 hours)	max 24 hours		
C	106	How many hours did you use this generator each evening, from 6:00 pm to 10:00 pm, during the last seven days?	(max 4 hours)	Max 4 hours	Hours	
C	107	In the last 12 months, did any of your appliances get damaged because the voltage was too high, too low or going up and down from the generator?			Yes...1 No...2 Don't know...H	

C	108	What is the most serious problem you experience with the generator?	<p>Limited power supply...1 Cannot power large appliances...2 Too expensive to use (including high cost of fuel/rent)...3 Availability of fuel...4 Had to maintain service...5 Local Utility...6 Unpredictable interruptions...7 Other...35 No problems...86</p> <p>^a Limited power supply...1 Cannot power large appliances...2 Too expensive to use (including high cost of fuel/rent)...3 Availability of fuel...4 Had to maintain service...5 Local Utility...6 Unpredictable interruptions...7 Other...35 No problems...86</p>
C	109	What is the second most serious problem you experience with the generator?	
C	110	In the last 12 months, did any household members have permanent (bodily injury) damage because of the generator?	Yes...1 No...2 → Skip to C111
C	111	What was the cause of this injury?	<p>^a Carelessness or error...1 Lack of knowledge about the use of the appliance...2 Faulty wiring connection...3 Other...22</p>
C	C	*Externally Recharged Battery (Car Battery, etc)	
		<i>Change to Before C112 Only answer C112-C127 if C10=6 or (C10=4 and C11=6) Otherwise skip to C128</i>	
C	112	How many years have you had this battery?	Record in years ^a Record in years, if less than 1 year record
C	113	In the last 12 months, in which months did you use rechargeable batteries?	January...a February...b March...c April...d May...e June...f July...g August...h September...i October...j November...k December...l All year...n
C	114	In the last 12 months, what did your household use rechargeable batteries for?	Multiple response possible Multiple response possible Lighting...a Appliances...b Home-based income activity...c Outside work...d Other...e
C	115	Does your household have an inverter that allows you to use AC appliances?	Yes...1 No...2 → Skip to C117
C	116	What is the capacity of the inverter?	Given in Watt (W). Read the information plate of the inverter if available. Range: 5-1500 Watts (W)
C	117	What is the total number of rechargeable batteries that you use in a typical month?	2 digits Total number of rechargeable batteries. Don't know...38
C	118	How much did you pay for the rechargeable batteries?	0 digits Local currency Don't know...38
C	119	How much does your household spend in a typical month to recharge the batteries (in total)?	0 digits Local currency Don't know...38
C	120	What is the electricity source used to recharge the battery?	National grid...1 Local grid...2 Electric generator...3 Solar...4 Other...5
C	121	How many hours can you use rechargeable batteries for electricity supply each day and night when fully charged if you wanted to?	(max 24 hours) (max 24 hours) Hours Don't know...38
C	122	How many hours can you use rechargeable batteries for electricity supply each evening, from 6:00 pm to 10:00 pm if you wanted to?	(max 4 hours) (max 4 hours) Hours
C	123	What is the Amp-hours (Ah) stated on the battery?	^a Capacity: ampere-hours (Ah) Read the information plate of the battery if available. Unknown...1 Home-type batteries, sum up the Ah of all the batteries. If multiple batteries, record voltage in the most used battery. Value (V) Read the information plate of the battery if available. Unknown...38 Range: 20-500 Amps-hour Don't know...38
C	124	What is the voltage (V) of the rechargeable batteries?	2 digits Range: 6-24 Value Don't know...38

C	125	What is the watt hours (Wh) stated on the battery?	Read the information placed on the battery if available. If no longer present, sum up the Wh of all the batteries. Unknown=0	Range: 200-8000	Wh: Unknown...P12345 Supply shortage/no enough hours of electricity...1 Too expensive...2 Cannot power large appliances...3 Recharging is not convenient...4 Maintenance & repair is difficult...5 Cannot recharge battery to full capacity...6 Other, specify...55 No problem...66
C	126	What is the most serious problem you experience with the rechargeable batteries?			Supply shortage/no enough hours of electricity...1 Too expensive...2 Cannot power large appliances...3 Recharging is not convenient...4 Maintenance & repair is difficult...5 Cannot recharge battery to full capacity...6 Other, specify...55 No problem...66
C	127	What is the second most serious problem you experience with the rechargeable batteries?			Supply shortage/no enough hours of electricity...1 Too expensive...2 Cannot power large appliances...3 Recharging is not convenient...4 Maintenance & repair is difficult...5 Cannot recharge battery to full capacity...6 Other, specify...55 No problem...66
C	C	Main Source of energy for Charging Mobile Phone	The next questions are about mobile phones in the household.		
C	128	How many mobile phones do the household members own combined?	If none, input "0"	If none, input "0" → Skip to D1	Number Yes...1 → Skip to C10 No...2 Don't know...44
C	129	Are members of your household able to charge all their mobile phones as often as they need inside your dwelling?			Yes...1 → Skip to C10 No...2 Don't know...44
C	130	Can you charge at least one mobile phone to full charge every day inside your dwelling?			Yes...1 → Skip to C10 No...2 Don't know...44
C	131	Can you charge at least one mobile phone to full charge in 3 days inside your dwelling?			Yes...1 No...2
C	132	How many mobile phones of your household members do you charge outside your dwelling?		00 → Skip to C10	Number of mobile phones
C	133	How much does your household spend each month (in total) on charging the mobile phone(s) outside your dwelling?		0 digits	Local currency
C	134	Does your household have a solar charger or solar power bank that can be used for charging mobile phones?			Yes...1 No...2
D	D	Willingness to Pay for a Grid Connection			
			Before D1: If (C10 eq 1 or C11 eq 1) then skip to E1		
D	1	Would you be able to pay \$1(CF) upfront for an electricity connection?		For each household, CAPI will randomly assign one of the following amounts in the placeholder \$1(CF): 30% of the connection fee in local currency or 100% Same amount in D1 and D2.	Yes...1 → Skip to E1 No...2 Don't know...44
D	2	Would you be able to pay \$1(CF) for an electricity connection, if you were given 12 months to make the payment?		For each household, CAPI will randomly assign one of the three following amounts in the placeholder \$1(CF): 30% of the connection fee in local currency or 100% Same amount in D1 and D2.	Yes...1 → Skip to E1 No...2 Don't know...44
D	3	Would you be interested in getting a grid connection if you could get connected for free?			Yes...1 → Skip to E1 No...2 Don't know...44
D	4	Why not?			*Grid cannot afford the wiring costs...1 Do not need electricity...2 Electricity service is unreliable...3 Monthly fee is too expensive...4 Other...55

E E Willingness to Pay for Solar home system	
<p><i>Before E1: If C10 in F or C11 in F then skip to G1</i></p> <p><i>Before E1: If C10 in (D) or C11 in (D) then continue with form 1.</i></p> <p><i>All others skip to form 2.</i></p> <p>You will now ask you questions about your willingness to pay for a solar home system. A solar home system can be installed even in remote households with no access to the grid. It uses solar power and can provide power to lights and appliances like a radio, fan, TV etc. The full price of the solar home system is buying and installing the system, then there is no cost of using electricity. We know that you already have a grid connection, but as you answer the next few questions, keep in mind the benefits of a solar home system, as well as your household budget.</p> <p>We will now ask you questions about your willingness to pay for a solar home system. A solar home system can be installed even in remote households with no access to the grid. It uses solar power and can provide power to lights and appliances like a radio, fan, TV etc. The full price of the solar home system is buying and installing the system, then there is no cost of using electricity. As you answer the next few questions, keep in mind the benefits of a solar home system, as well as your household budget.</p>	
E 1	<p>For each household, CAP will randomly assign a Tier 2 high capacity: enough to power a television entirely, one of the three following amounts in the placeholders 1(CF): 50% or 100% of the solar device in local currency. We will have the market price for the selected. Same amount in E1 and E2.</p> <p>For each household, CAP will randomly assign a Tier 2 high capacity: enough to power a television entirely, one of the three following amounts in the placeholders 1(CF): 50% or 100% of the solar device in local currency. We will have the market price for the selected. Same amount in E1 and E2.</p> <p>Would you be willing to pay \$1(CF) up front for this solar device?</p>
E 2	<p>Would you be willing to pay \$1(CF) for this solar device, if you were given 12 months to make the payment?</p>
E 3	<p>Why would you not accept the offer?</p>
<p>Yes... 1 → skip to G4 No... 2 Don't Know... 3</p> <p>Cause effect no payment... 1 Do not need electricity... 2 Maintenance/running of device is not available... 3 Cost, quality... 3</p>	

G G Dry-Cell Batteries																																														
<p><i>Before G1; C10 ne 9 then skip to F1</i></p> <p>You said that your main source of electricity is dry cell batteries. We would now like to ask you some questions about these batteries</p>																																														
G 1	<p>Which of the following devices did you use dry cell batteries to power?</p> <p>multiple responses. Read options aloud.</p> <p>multiple responses</p>																																													
G 2	<table border="1"> <thead> <tr> <th>Categories</th> <th></th> <th>a</th> <th>b</th> <th>c</th> </tr> </thead> <tbody> <tr> <td></td> <td>How many of [ITEM] does your household power with dry cell batteries?</td> <td>How much did you pay for each [ITEM] on average?</td> <td colspan="2">How many hours did you use the [ITEM] per day during the last 7 days?</td> </tr> <tr> <td></td> <td>NUMBER OF EACH DEVICE <i>If 0 skip to next item</i></td> <td>If paying in instalment, enter total value of payments. If more than 1 device, input the average.</td> <td colspan="2">If more than 1 device, input the average.</td> </tr> <tr> <td></td> <td>Number</td> <td>8 digits Local currency</td> <td colspan="2">Hours</td> </tr> <tr> <td>1</td> <td>Lanterns</td> <td></td> <td colspan="2"></td> </tr> <tr> <td>2</td> <td>Flashlights</td> <td></td> <td colspan="2"></td> </tr> <tr> <td>3</td> <td>Task lights</td> <td></td> <td colspan="2"></td> </tr> <tr> <td>48</td> <td>Other devices</td> <td></td> <td colspan="2"></td> </tr> <tr> <td>66</td> <td>Noes</td> <td></td> <td colspan="2"></td> </tr> </tbody> </table>	Categories		a	b	c		How many of [ITEM] does your household power with dry cell batteries?	How much did you pay for each [ITEM] on average?	How many hours did you use the [ITEM] per day during the last 7 days?			NUMBER OF EACH DEVICE <i>If 0 skip to next item</i>	If paying in instalment, enter total value of payments. If more than 1 device, input the average.	If more than 1 device, input the average.			Number	8 digits Local currency	Hours		1	Lanterns				2	Flashlights				3	Task lights				48	Other devices				66	Noes			
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O	3	How many of dry cell batteries do you purchase each month ? How much do you spend each month on dry cell batteries?		NUMBER OF BATTERIES FOR ALL DEVICES 8 digits LOCAL CURRENCY
F	F	Lamps and candles: Kerosene/Paraffin/Fuel-Based-Lighting		
F	1	The next question is about the households use of lamps/candles and fuel used for lighting. Are you well informed about these issues, or would you like somebody else in the household to answer these questions?	Record Respondent MemberNo for this section	MemberNo and name from listing of persons 15 years and older MemberNo
F2 only for households with school children, (ie. Between 5 and 18 and AC6=1). Others skip to F3.				
F	2	First we would like to know What is the main source of lighting the children who are currently enrolled in school usually use for studying doing homework?	Single response	*Electric lighting lamp...1 Solar powered light source...2 Kerosene-powered light source...3 Insect lighting...4 Kerosene/paraffin lamp...5 Candles...6 Open wick lamp...7 Flameless...8 Other...55 Studying and homework only during daylight hours...66
Before F3: if C10 in 1,3,4 then skip to II. This section is only for those that do not have national grid, local grid, generator or solar home system as main source of electricity.				
Then we would like to know some more about light sources and lamps in the household.				
F	3	Which of these is the main source of lighting in the household? How many of these lamps does your household have?	Read options aloud. Main: the type you use the most.	NUMBER OF LAMPS Candles...2 → skip to F6 Open wick lamp...2 Wick lamp with glass cover...3 Paraffin/kerosene lamp...4 Solar powered light source...5 → II Kerosene-powered light source...6 → II None...7 → II Other...55
F	4			
F	5	How much did you pay for each [LAMP]?	If paying in instalment, enter total value of payments. If more than 1 device, input the average.	8 digits LOCAL CURRENCY
F	6	In the last 30 days, how many days did you use [LAMP/CANDLE]?		NUMBER OF DAYS Max 30
F	7	How many hours do you use [LAMP/CANDLE] each day?		HOURS Max 24
F	8	What are the most important problem when using the [LAMP/CANDLE]?		 PROBLEMS Lessons too expensive to operate...1 Fuel too expensive...2 Fuel not available...3 Accidents can happen...4 Bad for health...5 Solutions needed...6 Time spent to collect fuel...7 Other...55 No problems...66 → skip to F10
F	9	What are the second most important problem when using the [LAMP/CANDLE]?		 PROBLEMS Lessons too expensive to operate...1 Fuel too expensive...2 Fuel not available...3 Accidents can happen...4 Bad for health...5 Solutions needed...6 Time spent to collect fuel...7 Other...55 No problems...66
F	10	In the last 12 months, did anybody in your household face any serious burn injury from [LAMP/CANDLE]?		Yes...1 No...2
F11 ask to be asked to candle users (F3=1)				
F	11	Which of the following do you mainly use as fuel for your [MAIN SOURCE OF LIGHTNING]?		Kerosene/paraffin...2 Dried...3 Gentane...4 Biogas...5 Paraffin...6 None...7 → skip to G1
F	12	What is the total quantity of [FUEL CANDLES] you purchase at a typical time?	Needs column 1 digit behind comma.	LITERS OF FUEL/Number of Candles
F	13	How long does this quantity of [FUEL CANDLES] typically last?		DAYS

F	14	How much do you pay in total for the gas you purchase?		8 digits	LOCAL CURRENCY
F	15	How much of the fuel you bought was used for [MAIN SOURCE OF LIGHTING]?			All...1 More than half...2 Half...3 Less than half...4
I	1	Use of Cooking Solutions			
I	1	Now we would like to talk to [NAME] from ASI about cooking and fuels used for cooking.	If [NAME] is not present, ask to speak to another person knowledgeable about cooking. Record resp contact: MemberNo for this session	DAMBL: The household member who is responsible for feeding the household, is identified in ASI. This person may or may not be a member of household. Household and source from latest survey (person 15 years and older)	MemberNo
		In this section we would like to ask you about the kind of stoves you use for cooking and its details.			This section should answer both
I	2	Have you used any stoves using firewood, dung, twigs and leaves during the last 12 months?			Yes...1 No...2 => skip to 34
I	3	Which type of stove is this?	Ask to see the oven or show pictures. The enumerator should make sure to identify the right type of stove.	Multiple answers	Three-chimney stove...131 Round mud stove...162 ICS w/o access for airflow...111 ICS w/o metal stag...112 Rocket stove...131 High additional forced airflow stove...132 Loose 1 Rocket stove with high insulation...131 Rocket stove with external chimney (Cannabisirungayu)...132 Loose 2 Rocket stove with well-sealed chimney...141 Metal Rocket stove...142
I	4	Have you used any stoves using charcoal or kerosene during the last 12 months?			Yes...1 No...2 => skip to 34
I	5	Which type of stove is this?	Ask to see the oven or show pictures. The enumerator should make sure to identify the right type of stove.	Multiple answers	Traditional charcoal stove - Open access for air...331 Traditional mixed charcoal stove...302 Chimney stove, Old ICS Opening for air may be closed...211 Classic liquid charcoal ICS...211 Classic liquid and coalized charcoal ICS...211 Kerosene cooking stove (Mishmi)...213 Efficient charcoal stove with controlled airflow...341
I	6	Have you used any stoves using rice husks, pellets or briquettes?			Yes...1 No...2 => skip to 34
I	7	Which type of stove is this?	Ask to see the oven or show pictures. The enumerator should make sure to identify the right type of stove.	Multiple answers	Gasifier stove...331 Bio Gas Gasifier stove without air & chimney...341
I	8	Have you used any stoves using LPG, biogas, electricity (grid or solar), solar oven (non-electric)?			Yes...1 No...2 => skip to 34
I	9	Which type of stove is this?	Ask to see the oven or show pictures. The enumerator should make sure to identify the right type of stove.		Bio-gas stove...401 Multiple LPG stove...452 Electric stove...461 Solar oven (Non-electric)...471 Three-chimney stove...161 Round mud stove...302 ICS w/o access for the chimney...111 ICS w/o metal stag...112 Rocket stove...131 High additional forced airflow stove...132 Loose 1 Rocket stove w/o high insulation...131 Rocket stove with external chimney (Cannabisirungayu)...132 Loose 2 Rocket stove with well-sealed chimney...141 Metal rocket stove...142 Traditional charcoal stove - Open access for air...331 Traditional mixed charcoal stove...302 Chimney stove, Old ICS Opening for air may be closed...211 Classic liquid charcoal ICS...211 Classic liquid and coalized charcoal ICS...211 Kerosene cooking stove (Mishmi)...213 Efficient charcoal stove with controlled airflow...341 Gasifier stove...331 New dual rocket biogas stove...332 Bio Gas Gasifier stove without air & chimney...341 Biogas stove...451 Multiple LPG stove...452 Single LPG stove...453 Electric stove...461 Solar oven (Non-electric)...471
I	10	Which one is your main stove?			Only show marked codes from 13, 15, 17 and 19

Cookstoves in Tanzania		Point to appear in COPs				
		Ques.	Ans.	Ans.	Ans.	Ans.
Fuel: Firewood, dung, sticks and leaves						
11	How many times	11.1) How many times do you use wood, dung, sticks and leaves?	11.2) Wood stove	11.3) Wood stove with chimney	11.4) Traditional wood stove with chimney	11.5) Traditional wood stove
Fuel: Charcoal or kerosene						
12	How many times	12.1) How many times do you use charcoal or kerosene?	12.2) Charcoal stove	12.3) Charcoal stove with chimney	12.4) Kerosene stove	12.5) Electric stove with chimney
Fuel: Biomass, pellets and biogas						
13	How many times	13.1) How many times do you use biomass, pellets and biogas?	13.2) Biomass stove	13.3) LPG stove	13.4) Biogas stove	13.5) Biomass stove with chimney
<p>We would now like to ask you some more questions about your main stove.</p> <p>CGGE: Purchased, upcycled..._1 Purchased, installed..._2 Received for free..._3 → Skip to 11.4 Built ourselves..._4 → Skip to 11.5</p>						
14	Who gave the [STOVE] to you?		Member ID from HH member	Member ID from HH owner	Member ID	
15	Did you receive training or information on the [STOVE]?			8 digits	8 digits	
16	What is the manufacturer and model of the [STOVE]?				Alphanumeric; 32 characters	
17	If you want to sell the [STOVE] in your community today, how much would you receive?			8 digits	Amount in local currency Don't know..._8	
18	How long have you been using this [STOVE]?	If less than 1 year, record 0			Number of years	
19	How many years do you expect to continue using this [STOVE]?	If less than 1 year, record 0			Number of years	
20	In the last 12 months, during which part of the year did you use this [STOVE]?				All year round..._1 Mainly dry season..._2 Mainly rain season..._3	
21	Is the [STOVE] fixed in one place or movable?	Might be answered by observation			Fixed..._1 Movable..._2	

			In dwelling, NOT in sleeping area..1 In dwelling, in a sleeping area..2 In a separate kitchen..3 In a veranda (covered platform with at least two open sides)..4 In a separate open kitchen/dwelling..5 Open air..6
I	22	In the last 12 months, where did you normally cook with [STOVE] in the dry season?	In dwelling, NOT in sleeping area..1 In dwelling, in a sleeping area..2 In a separate kitchen..3 In a veranda (covered platform with at least two open sides)..4 In a separate open kitchen/dwelling..5 Open air..6
I	23	In the last 12 months, where did you normally cook with [STOVE] in the rainy season?	In dwelling, NOT in sleeping area..1 In dwelling, in a sleeping area..2 In a separate kitchen..3 In a veranda (covered platform with at least two open sides)..4 In a separate open kitchen/dwelling..5 Open air..6
	*	(If 12 = (1,2,3) or 13 =(1,2,3)) and (13=1 or 14=1 or 16=1) then continue with 14. Others skip to 15.	
I	24	Do you use a chimney, hood or other exhaust system while using this stove?	Yes..1 No..2
	*	"In the last 12 months, what are the fuels you used the most on [STOVE]?"	LPG/cooking gas..1 Wood purchased..2 Wood collected..3 Charcoal..4 Kerosene/petrol..5 Piped Natural Gas..6 Coal/gignite..7 Animal Waste/Dung..8 Crop Residue/Plant Biomass..9 Saw Dust..10 Coal Briquettes..11 Biomass Briquette..12 Electric... --> Skip to 15 Processed biomass (pellets)/ woodchips..14. Briquet..15 Dustfuel..16 Guttagu/plastic..17 Solar..18 Other..19 Not applicable..99
I	25	A. Most Used Single response	
	*	"In the last 12 months, what are the second most used fuel you used on [STOVE]?"	LPG/cooking gas..1 Wood purchased..2 Wood collected..3 Charcoal..4 Kerosene/petrol..5 Piped Natural Gas..6 Coal/gignite..7 Animal Waste/Dung..8 Crop Residue/Plant Biomass..9 Saw Dust..10 Coal Briquettes..11 Biomass Briquette..12 Electric..13 Processed biomass (pellets)/ woodchips..14. Briquet..15 Dustfuel..16 Guttagu/plastic..17 Solar..18 Other..19 Not applicable..99
I	26	B. Second most Used Single response If only one type of fuel is used, choose "Not applicable..60"	
	*	If 12 = 13, 18, 60, 55 then skip to 128	
I	27	In the last 12 months, how often was the [FUEL TYPE] available?	Read aloud options: A. Most used B. Second most used
	*		FUEL TYPE from 125 --> Skip to 129 if there is no "Second Most Used" fuel in 125
	*		If 126 = 13, 18, 60, 55 then skip to 129
I	28	In the last 12 months, how often was the [FUEL TYPE] available?	Read aloud options: B. Second most used
	*		FUEL TYPE from 125
I	29	In the last 12 months, how many months did you use [FUEL]?	FUEL TYPE from 125 Number of Months Used all year..12 Skip: If "3 Wood collected" or "3 Animal waste/dung" "9 Crop Residue/Plant Biomass", "10 Saw Dust", "17 guttagu/plastic" in 125 then skip to 134

I	39	What kind of unit do you usually buy the [FUEL] in?	<i>Unit</i>	FUEL TYPE from I25 E.g.: Litre...1 Bottle...2 Pump...3 House...4 Packet...5
I	40	How much did you pay the last time you purchased one [UNIT] of [FUEL]?	<i>Local currency</i>	FUEL TYPE from I25 UNIT from I30 8 digit COST - (Local Currency)
I	41	How long does a [UNIT] of [FUEL] typically last? NUMBER OF DAYS	<i>Quantity</i>	FUEL TYPE from I25 UNIT from I30 8 digit No purchase...0 OR Don't know...88
I	42	How much of the fuel you bought was used for cooking?		All...1 More than half...2 Half...3 Less than half...4
I	43	How much time do household members spend preparing the [STOVE] and fuel for each meal on average?	Including coming up the fuel and turning on the stove but not gathering fuel or cooking time	Minutes
I	44	In the last 7 days, how many days did you use [STOVE]?		Days
I	45	In the last 7 days, on average, how many times did you light the [STOVE] per day? Now we would like to know how much time your household spend per day to cook or reheat meals at different times of the day on the [STOVE]. Do not include boiling water. Think about the last 7 days when you answer these questions.		Number of times
I	46	On average, how much time do you spend in the... morning?		Minutes
I	47	On average, how much time do you spend in the... afternoon?		Minutes
I	48	On average, how much time do you spend in the... evening? In the last 7 days, on average, how much time did your household use [STOVE] per day to boil water (for cooking, washing, and drinking)?	If the stove is not used for boiling water, record 0.	Minutes
I	49	In the last 12 months, did anybody in your household face any serious harm/injury from [STOVE]?		Yes...1 No...2 → <i>Skip to 54</i>
I	50	Did you seek professional medical assistance for this injury/ any of these injuries?		Yes...1 No...2
<i>Before 50: If I25 in (2,3) or I26 in (2,3)</i>				
We would now like to talk about the time used to collect wood.				
I	51	How many times did the household gather, collect or purchase fuel during the last seven days?		Number of times if 0 skip to 54
I	52	How many members of the household were involved each time?	Cannot be more than number of household members	Number of people
I	53	How much time did it typically take to gather, collect or purchase fuel per person each time they did so during the last seven days?		HH MM
If (I25 or I26 in 2, 3, 4, 7, 8, 9, 10, 11, 12, 14, 17) AND I22 in (1, 2, 3) CONTINUE, IF NOT SKIP TO 09. Only for those that uses solid fuels as their main stove and have said that they cook food outdoors.				

		May I please have a look at your kitchen? I would like to record the shape and size of the kitchen.	
Estimator: Estimate the size of the cooking space by filling the following fields. One pace = 3 feet or 0.75 meters. Approximately one walking step.			
I	46	Record the rough shape of the cooking space	Roughly square... Roughly rectangular... Roughly Circular... Other, estimate the size... ... paces → Skip to 131
I	47	Record the dimensions of the cooking space in paces	Square, record one side ... paces
I	48	Record the dimensions of the cooking space in paces	Rectangle, record side 1 ... paces
I	49	Record the dimensions of the cooking space in paces	Rectangle, record side 2 ... paces → Skip to 132
I	50	Record the dimensions of the cooking space in paces	Circle, record diameter ... paces → Skip to 133
I	51	Estimate the size of cooking space in square paces	Estimate total size in square paces ... square paces
I	52	Record the type of roof covering the cooking space	Flat... Roughly Circular... Gable-triangular over-extended... None of the above... Smaller than me... My height... 1.5x my height... 2x my height... More than 2x my height... Only door... One window... 2 or more windows... Additional large opening... Yes, a chimney... Yes, a hood... Yes, a fan... Yes, two or three of these... No... 1
I	53	Estimate the height of the highest point of the ceiling relative to your own height	
I	54	How many doors and windows (opening to the outside) does the cooking space have?	Number of Openings
I	55	Does the cooking oven or kitchen have any ventilation, such as a chimney, a hood, or a fan?	May be recorded by observation
O	O	Health Impacts	To learn about the health impacts of cooking we would like to ask you some questions about your health.
O	1	Did you have persistent coughing or an illness with a cough at any time in the last 14 days?	Yes... No... 1
O	2	Did you breath faster than usual with short, rapid breaths or had difficulty breathing?	Yes... No... 2
O	3	Did you also experience a problem in the chest or a blocked or runny nose?	Yes... No... 3
O	4	Did you have an eye irritation or eye problems in the last 14 days?	Yes... No... 4
If no "yes... 1" in Q2, Q3, Q4 or Q5 then skip to Q7			
O	6	Did you go to see a doctor/clinic for the illness?	Yes... No... 6
O	7	If household with children, pick randomly a child aged 0-16 years old. If no children in household skip to Q1.	
O	8	Did [NAME] have persistent coughing or an illness with a cough at any time in the last 14 days?	Yes... No... 8
O	9	Did [NAME] breath faster than usual with short, rapid breaths or had difficulty breathing?	Yes... No... 9
O	10	Did [NAME] also experience a problem in the chest or a blocked or runny nose?	Yes... No... 10
O	11	Did [NAME] have an eye irritation or eye problems in the last 14 days?	Yes... No... 11

O	12	Did [NAME] go to see a doctor/clinic for the illness?	Yes...1 No...2
K	K	Willingness to Pay for an Improved Cookstove	<p>This module should be asked to only households WITHOUT an improved cookstove (CAPI enumerator check).</p> <p>If 110 = 101 then answer as charcoal user If 110 = 102 then answer as wood user else skip to next section</p> <p>Then randomly assign one of the four following improved cookstoves: Wood users = Popular affordable wood ICS available in local market. Charcoal users = Popular affordable charcoal ICS available in local market.</p>
K	1	An improved cooking stove can reduce the fuel consumption significantly. It can also reduce the smoke. Possibly, your cooking time per meal will be shortened since firepower of this cookstove is stronger than the traditional cookstove. As you answer the next few questions, keep in mind the various benefits from this device as well as your household budget.	
K	2	Would you be willing to purchase this cookstove at [CAPI Price]? Select one.	Yes...1 → Skip to J1 No...2
K	3	Would you be willing to pay \$[CF] for this stove, if you were given 12 months to make the payment?	Yes...1 → Skip to J1 No...2 Don't Know...88 Cannot afford the payment...1 Do not need an improved cookstove...2 Fuel for this stove is unavailable...3 Traditional cookstove is better...4 Other...55
K	4	Why would you not accept the offer?	
J	J	SPACE AND WATER HEATING	The next questions are about space and water heating
J	1	Do you heat water for washing (either for washing dishes and clothes or for bathing)? What is the main device you use to heat water? Select one.	Yes...1... No...2 → Skip to J3 Electric heater/boiler...1 Electric kettle/teapot...2 Electric stove...3 Gas stove...4 Gas stove...5 Solar thermal system...7 Same stove as used for cooking...8 Separate solid fuel stove...9
J	2		
J	3	Do you heat your house?	Yes...1... No...2 → Skip to J1 Electric heater...1 → Skip to J1 Gas heater...2 → Skip to J1 District heating...3 → Skip to J1 Solar thermal system...4 → Skip to J1 Same stove as used for cooking...5 → Skip to J1 Separate solid fuel stove...6
J	4	What is the main source you use to heat your house?	LPG/propane gas...1... Wood purchased...2... Wood collected...3... Charcoal...4... Solar...5... Kerosene/petrol...6... Piped Natural Gas...7... Coal/gas...8... Animal Waste/Dung...9... Crop Residues/Fruit/Bananas...10... Saw Dust...11... Coal Briquette...12... Biomass Briquette...13... Electric...14... Purchased biomass (pellets)/woodchips...15... Biogas...16... Ethanol...17... Gel/glycerin...18... Not applicable...99
J	5	What is the MAIN fuel you use in this stove?	

L L Household assets: Transportation, Electrical Appliances, Agricultural Equipment

L	1	<p>Now we would like to know more about what the household owns, material items, electric appliances and domestic animals. Are you well informed about these issues or would you like somebody else in the household to answer these questions?</p> <p>In all societies there are differences in material welfare between households, and the welfare situation of the household can also change over time. This can be seen in the assets the households own. We will now ask you some questions about what items this household own today. The item must be in working condition. We would also like to know if you owned such an item 5 years ago.</p>	Record Respondent MemberNo for this section	MemberNo and name from listing of persons 15 years and older.	MemberNo
L	2		a	b	c
Categories	Item	Does your household have a [ITEM] which is regularly used?	How many hours did your household use [ITEM] yesterday? Both day and night	Did your household have a [ITEM] 5 years ago?	
	1 Bed	Yes..1 No..2		Yes..1 No..2	
	2 Table	Yes..1 No..2		Yes..1 No..2	
	3 Bicycle	Yes..1 No..2		Yes..1 No..2	
	4 Motorcycle	Yes..1 No..2		Yes..1 No..2	
	5 Car	Yes..1 No..2		Yes..1 No..2	
6	Radio using batteries	Yes..1 No..2		Yes..1 No..2	
		<small>L7-L9 only for households with electricity as main or back-up source: if C10 or C11 in (1,3,4,5,7). L7c-L9c only for those that had grid electricity 5 years ago C12 in (1,2,3,4,5,7)</small>			
7	Mobile phone charger	Yes..1 No..2		Yes..1 No..2	
8	Electric radio	Yes..1 No..2		Yes..1 No..2	
9	Fan	Yes..1 No..2 - Skip to 20	Number of hours	Yes..1 No..2	
		<small>L10-L19 only for households with electricity as main or back-up source: if C10 or C11 in (1,3,4,5). L10c-L19c only for those that had grid electricity 5 years ago C12 in (1,2,3,4,5)</small>			
10	Refrigerator	Yes..1 No..2		Yes..1 No..2	
11	Microwave oven	Yes..1 No..2		Yes..1 No..2	
12	Freezer	Yes..1 No..2		Yes..1 No..2	
13	Washing machine	Yes..1 No..2		Yes..1 No..2	
14	Electric sewing machine	Yes..1 No..2		Yes..1 No..2	
15	Air Conditioner (AC)	Yes..1 No..2		Yes..1 No..2	
16	Computer/ Tablet	Yes..1 No..2		Yes..1 No..2	
17	Electric hot water pot/kettle	Yes..1 No..2		Yes..1 No..2	
18	TV	Yes..1 No..2		Yes..1 No..2	
19	Electric water pump	Yes..1 No..2		Yes..1 No..2	
		<small>L20-L22 only for households with electricity as main or back-up source: if C10 or C11 in (1,3,4,5,7). L20c-L22c only for those that had grid electricity 5 years ago C12 in (1,2,3,4,5,7)</small>			

		Select 0 for none and skip to next row	
20	Do you have any traditional Light Bulbs? If SO: How many all together?	None_0 1-4, code number 1 - 6 5 or more_5	Yes_1 No_2
21	Do you have any LED Light Bulbs? If SO: How many all together?	None_0 1-4, code number 1 - 4 5 or more_5	Yes_1 No_2
22	Do you have any light bulbs or tubes of other types? If SO: How many all together?	None_0 1-4, code number 1 - 4 5 or more_5	Number of hours - all light bulbs and tubes Yes_1 No_2

Now we would like to ask you some questions about agriculture activity and domestic animals.

3	Do you cultivate any land? If SO: How large is the area?	No land_0 0.0ha_1 0.5 - 1ha_2 <1.2ha_3 <2ha_4 No land_0 0.0ha_1 0.5 - 1ha_2 <1.2ha_3 <2ha_4 Yes_1 No_2 > Skip to section M
4	Did you cultivate any land 5 years ago? If SO: How large was the area?	No land_0 0.0ha_1 0.5 - 1ha_2 <1.2ha_3 <2ha_4 Yes_1 No_2
5	Do you keep any domestic animals?	No_0 1-2_1 3-5_2 6 or more_3 None_0
6	How many cattle?	1-1_1 2-10_2 11 or more_3
7	How many sheep, goat or pigs?	None_0 1-10_1 11 or more_2

L	8	How many chicken, ducks, turkeys, geese?	None_0 1-10_1 11 or more_2
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M	M	Street Lighting	Now we would like to ask about security lights in your neighbourhood.
M	1	"Does your neighbourhood have any form of outdoor security light (street lighting)?"	Yes_1 No_2 > Skip to M1
M	2	"Is the security light street lighting used throughout the area?"	Yes_1 No_2
M	3	"Does the police or local security groups patrol the streets in your neighbourhood after dark?"	Yes_1 No_2

N	N	Time Use – Day Time and After Dark	Now we would like to know more about how the members of the household spend their time, both today and 5 years ago. We will ask about time use for women and men and children and grown-ups separately.
		Are you well informed about these items in the survey? Select Respondent Identifiable for the survey	More than 50% and same time 50% or less time (5 years and older)

Step: This section is only for households with women 15 years and older.					
		A	B	C	D
		How many women 15 years and older have been involved in (ACTIVITY) the last 7 days? Number of women	Did women in the age group you are here on this activity 15 years ago? Number of women	In the last 7 days, how much time did each of these women use? (ACTIVITY) All women involved	How much of this time was spent more or less time on this activity than 5 years ago? (ACTIVITY) Same time_1 More time_2 Less time_3 The same amount of time_2
Categories		0 to more than 0	Yes_1 No_2 All women involved	000.000	000.000
1	Collecting water				
1	Collecting firewood				
3	Income generating activities inside the house (cooking, eating, preparing food for animals, cleaning, washing, food processing, making soap, baking, bottling, sewing, tailoring etc for sale)				
4	Watching TV, listening to the radio or using smart phone				
5	Spending time on entertainment and socializing outside the house				

Skip: This section is only for households with girls in the age of 5-14.

Then we continue with the time-use of girls in the age of 5-14 years old.

N		k	l	m	n	o
		Did girls 5-14 year in this age group use any time on this activity 3 years ago?	In the last 7 days, how much time did each of these girls use? [ACTIVITY]	How much of this time was spent after dark?	Do girls 5-14 year spend more or less time on this activity than 3 years ago? [ACTIVITY]	
Category	1. House chores	(a) - 1 2 3 4 5 6	(b) - 1 2 3 4 5 6	(c) - 1 2 3 4 5 6	(d) - 1 2 3 4 5 6	(e) - 1 2 3 4 5 6
nr	All continue with p. If <1 drop to k. 1. Collecting water 2. Collecting firewood 3. Income generating activities inside the house (household comp. not in the field). Caring for and preparing food for animals, shelling nuts, cleaning seeds, food processing, making mats, baskets, knitting, weaving, tailoring etc for sale. 4. Only for households with girls in the age of 5-14! Doing own homework 5. Watching TV, listening to the radio or using smart phone 6. Spending time on entertainment and socializing outside the house					

Skip: This section is only for households with men 15 years and older.

Then we continue with the time-use of men 15 years and older.

N		k	l	m	n	o
		How many men 15 years and older have been involved in [ACTIVITY] in the last 7 days?	Did men in this age group use any time on this activity 3 years ago?	In the last 7 days, how much time did each of these men use? [ACTIVITY]	How much of this time was spent after dark?	Do men 15 years and older spend more or less time on this activity than 3 years ago? [ACTIVITY]
Category	1. House chores	(a) - 1 2 3 4 5 6	(b) - 1 2 3 4 5 6	(c) - 1 2 3 4 5 6	(d) - 1 2 3 4 5 6	(e) - 1 2 3 4 5 6
nr	All continue with p. If <1 drop to k. 1. Collecting water 2. Collecting firewood 3. Income generating activities inside the house (household comp. not in the field). Caring for and preparing food for animals, shelling nuts, cleaning seeds, food processing, making mats, baskets, knitting, weaving, tailoring etc for sale. 4. Watching TV, listening to the radio or using smart phone 5. Spending time on entertainment and socializing outside the house					

Skip: This section is only for households with boys in the age of 5-14.

Last, we would like to know about the time-use of boys in the age of 5-14 years old.

N		p	q	r	s	t
		How many boys 5-14 years have been involved in [ACTIVITY] in the last 7 days?	Did boys in this age group use any time on this activity 3 years ago?	In the last 7 days, how much time did each of these boys use? [ACTIVITY]	How much of this time was spent after dark?	Do boys 5-14 years spend more or less time on this activity than 3 years ago? [ACTIVITY]
Category	1. House chores	(a) - 1 2 3 4 5 6	(b) - 1 2 3 4 5 6	(c) - 1 2 3 4 5 6	(d) - 1 2 3 4 5 6	(e) - 1 2 3 4 5 6
nr	All continue with p. If <1 drop to p. 1. Collecting water 2. Collecting firewood 3. Income generating activities inside the house (household comp. not in the field). Caring for and preparing food for animals, shelling nuts, cleaning seeds, food processing, making mats, baskets, knitting, weaving, tailoring etc for sale. 4. Only for households with boys in the age of 5-14! Doing own homework 5. Watching TV, listening to the radio or using smart phone 6. Spending time on entertainment and socializing outside the house					

Q		Consumption / expenditure		
Q	1	The next section is about household expenditure. Are you well informed about this issue or would you like somebody else in the household to answer these questions? Now we would like to ask you for some information on the household expenditures for food and for non-food during the last 7 days.	Record Respondent MemberNo for this section	MemberNo and name from listing of persons 15 years and older. MemberNo
Q		Consumption (include items purchased, produced/required and received as a gift/monetary) <i>Enumerator to estimate amounts</i>	A. How much did you spend to buy [ITEM]?	B. What is the value of [ITEM] that you produced yourself, and consumed during the last 7 days, if you had to buy it in the market? <i>Enumerator to estimate the value based upon local prices</i>
3		Cereal and cereal products (e.g. rice, maize, wheat, flour, millet) and starchy staples (e.g. cassava, plantain, yam, cocoyam)	8 digits Amount in local currency II=don't know	8 digits Amount in local currency II=don't know
4		Pulses & nuts (e.g.: beans, groundnuts, palm nuts, soy beans)	8 digits Amount in local currency II=don't know	8 digits Amount in local currency II=don't know
5		Milk & milk products (e.g. powder, tinned, fresh)	8 digits Amount in local currency II=don't know	8 digits Amount in local currency II=don't know
6		Edible oil (e.g.: palm oil, groundnut oil, coconut oil)	8 digits Amount in local currency II=don't know	8 digits Amount in local currency II=don't know
7		Vegetables (e.g.: okra, tomato, onion, carrot, cabbage, parsnip egg) and Fruits (e.g.: banana, coconut, pineapple, mango, orange, pawpaw)	8 digits Amount in local currency II=don't know	8 digits Amount in local currency II=don't know
8		Meat, fish, poultry and eggs	8 digits Amount in local currency II=don't know	8 digits Amount in local currency II=don't know
9		Sugar and sweets	8 digits Amount in local currency II=don't know	8 digits Amount in local currency II=don't know
10		Other food items (e.g. pepper, salt, spices, jam, bread, meals outside house, beverages etc.) <i>Include all processed foods not prepared by household using raw ingredients</i>	8 digits Amount in local currency II=don't know	8 digits Amount in local currency II=don't know
11		How much did you spend buying firewood and charcoal and other fuel during the last 30 days?	8 digits	Nothing ..0 Amount in TSh/Metres
12		How much did you spend on water, electricity, mobile phone top-ups, internet and other communication and transportation during the last 30 days?	8 digits	Nothing ..0 Amount in TSh/Metres
13		How much did you spend on clothes and shoes the last 30 days?	8 digits	Nothing ..0 Amount in TSh/Metres
14		How much did you spend on household items, such as soap, cleaning supplies, drama, batteries etc during the last 30 days? <i>Only for households with members attending school this school year (AC6=1):</i>	8 digits	Nothing ..0 Amount in TSh/Metres
15		How much did you spend on education related expenses (school fees, uniforms, supplies) during the last year?	8 digits	Nothing ..0 Amount in TSh/Metres
16		How much did you spend on other needs during the last year? <i>e.g. fixtures, health services, electronic equipment</i>	10 digits	Nothing ..0 Amount in TSh/Metres
S		Attitudes		
S	1	Now I would like to ask your opinion on some energy related questions, who would be the right person to answer these questions?	Record Respondent MemberNo for this section	MemberNo and name from listing of persons 15 years and older. MemberNo
S	2	Are you satisfied with the service from [MAIN SOURCE OF ELECTRICITY]?	Read about these options. MAIN SOURCE OF ELECTRICITY from C30	Not satisfied 1 Satisfied 2 Uncertain 4
There may be a number of reasons why people keep a traditional stove. Do you agree or disagree that the following statements are important arguments for keeping the traditional stove?				
S	3	Smoke from traditional stove is good for chasing insects away.	Read about options if needed.	Agree 1 Disagree 2 Strongly Agree 3 Strongly Disagree 4
S	4	Certain food tastes better when cooked on a traditional stove.	Read about options if needed.	Agree 1 Disagree 2 Strongly Agree 3 Strongly Disagree 4
S	5	The traditional stove is good for lighting up in the evening.	Read about options if needed.	Agree 1 Disagree 2 Strongly Agree 3 Strongly Disagree 4
S	6	The monthly electric bill is or would be a financial burden for my family, if household connected to the grid.	Read about options if needed.	Agree 1 Disagree 2 Strongly Agree 3 Strongly Disagree 4
S	7	Today, the quality of life of my household is better than it was 3 years ago.	Read about options if needed.	Agree 1 Disagree 2 Strongly Agree 3 Strongly Disagree 4

U	U	Livelihood means		
Would you like to know what the household members are doing for the livelihood in addition to their main work? Are you well informed about these areas or would you like somebody else in the household to answer these questions?			Record Respondent MemberNo for this section	
			MemberNo and name from listing of persons 15 years and older	MemberNo
For households where the head is at least 25 years (AHS ==25) and lived in the same community 3 years ago (B1 ==1), ask the questions about 3 years ago b and g. For ask all products today (U3a) and 5 years ago (U3b). Then ask U1c-U1g for the products produced.				
Now we would like to know if you body in the household produce or process anything to be sold.				
U	2	a	b	c
Categories		Do you produce or process [PRODUCT] in the household today?	Did you produce [PRODUCT] in the household 3 years ago? (Describe event 5 yrs ago - DROUGHT, FLOOD, PRESIDENT, ETC.)	You said that your household produces/produces this type of product Who is the (main) manager in the household for the production?
		Yes 1 → c No..2	Yes 1 No..2 → skip to next product	Where and how is this sale done?
1 Agricultural by-products, including flour, starch, juice, beer, rum, oil, wool, leather, etc				1 Own home... 2 Market elsewhere... 3 Through own trading business... 4 To common grazing zone...
2 Livestock by-products (milk, cheese)				
3 Fresh/unprocessed fish				
4 Firewood, home-made charcoal				
5 Construction timber, wood-poles or other construction material				
6 Mats, bricks, case furniture, woven baskets, thatch grass etc		Yes 1 → k No..2 → skip to U3d		
U	2	e	f	g
Categories		Was any electricity used for light or machinery for this processing/extraction?	Did this person or anybody else in the household do this type of production 5 years ago? (Describe event 5 yrs ago - DROUGHT, FLOOD, PRESIDENT, ETC.)	Did this production make less money 5 years ago, the same amount of money or more money? [PRODUCT]
		Yes 1 No..2	Yes 1 No..2 → skip to next product	Less money 5 yrs ago... Same amount of money 5 yrs ago... More money 5 yrs ago...
1 Agricultural by-products, including flour, starch, juice, beer, rum, oil, wool, leather, etc				
2 Livestock by-products (milk, cheese)				
3 Fresh/unprocessed fish				
4 Firewood, home-made charcoal				
5 Construction timber, wood-poles or other construction material				
6 Mats, bricks, case furniture, woven baskets, thatch grass etc		Yes 1 No..2 → skip to U3d		
For ask all products (U3a) today and 5 years ago (U3b). Then ask U1c-U1g for the products produced.				
Now we would like to know if anybody in the household runs a business or provide a service. We would like you to exclude agricultural businesses/services				
U	3	a	c	d
Categories		Does anybody in the household [BUSINESS] today?	Does anybody in the household [BUSINESS] in the household 3 years ago? (Describe event 5 yrs ago - DROUGHT, FLOOD, PRESIDENT, ETC.)	You said that your household run this type of business. Who is the (main) manager for this business/service?
		Yes 1 → e No..2	Yes 1 → h No..2 → skip to next product	Where is this business/service located?
1 offer professional services as a doctor, accountant, lawyer, translator, private tutor, teacher, masseur, etc?				House (private residence)... 1 House (public service)... 2 Industrial site... 3 Traditional market place... 4 Commercial area... 5 Roadside... 6 Other fixed place... 7 Mobile location... 8
2 own a household-owned shop or provide a service from home such as a carwash, metal worker, mechanic, carpenter, baker, tailor etc?				
3 own a trading or service business on a street or in a market?				
4 drive a household-owned taxi or pick-up truck to provide transportation or moving services?				
5 own a bar or restaurant?				
6 own any other non-agricultural business, even if it is a small business run from home or on a street?		Yes 1 → k No..2 → skip to U4		
U	3	e	f	g
Categories		Was any electricity used for light or machinery for this business/service?	Was the profit from this business 5 years ago, smaller, the same or larger than now? [BUSINESS]	Was any electricity used for this business/service 5 years ago?
		Yes 1 No..2	Smaller 5 yrs ago... Same 5 yrs ago... Larger 5 yrs ago...	Yes 1 No..2
1 offer professional services as a doctor, accountant, lawyer, translator, private tutor, teacher, masseur, etc?				
2 own a household-owned shop or provide a service from home such as a carwash, metal worker, mechanic, carpenter, baker, tailor etc?				
3 own a trading or service business on a street or in a market?				
4 drive a household-owned taxi or pick-up truck to provide transportation or moving services?				
5 own a bar or restaurant?				
6 own any other non-agricultural business, even if it is a small business run from home or on a street?		Yes 1 No..2 → skip to U4		

		<p>U4, U6, U8, U10 for all households. For households where the head is at least 15 yrs (A03 >=15) and lived in the same community 3 yrs ago (B02 >=3), ask also questions U5, U7, U9 and U11: Did this person or anybody else in the household do the same type of work 5 years ago?</p>
U	4	We would now like to know whether any household members have been working outside the household during the last 12 months Has anybody in the household done some piecemeal farm work during the last 12 months?
U	5	Did household members do this type of work during a 12 months period 5-6 yrs Has anybody in the household done some other piecemeal work for a business or somebody outside the household during the last 12 months?
U	6	Did household members do this type of work during a 12 months period 5-6 yrs Has anybody in the household done some public work (for the government, donors, charities) such as cash-for-work during the last 12 months?
U	7	Did household members do this type of work during a 12 months period 5-6 yrs Has anybody in the household done some public work (for the government, donors, charities) such as cash-for-work during the last 12 months?
U	8	Did household members do this type of work during a 12 months period 5-6 yrs Did anybody in this household go for work outside the community during the last 12 months?
U	9	Did household members do this type of work during a 12 months period 5-6 yrs Did anybody in this household go for work outside the community during the last 12 months?
U	10	Describe events 5 yrs ago - DROUGHT, FLOOD, FIRE/ESCAPE/ETC.
U	11	Describe events 5 yrs ago - DROUGHT, FLOOD, FIRE/ESCAPE/ETC.

T	T	Women's Empowerment		
		Now I will ask you some questions regarding decision making in your household. We would now like to talk to [NAME OF FEMALE HOUSEHOLD HEAD], [NAME OF FEMALE SPOUSE OF HOUSEHOLD HEAD] or another adult female in the household.	Asked Responder: Member(s) fit this criteria:	Member ID list of females >=15 years old
T	1	Respondent according to the following priorities: Female household head, female spouse of the household head, adult female member in the household >=15 years old.	Respondent should be a female.	According to the following priorities: Female household head, female spouse of the household head, adult female member in the household >=15 years old.
T	2	Who usually makes decisions about health care for yourself?	Read options aloud	You 1 Your husband/partner 2 You and your husband/partner 3 Someone else 4
T	3	Who usually makes decisions about major household purchases?	Read options aloud	You 1 Your husband/partner 2 You and your husband/partner 3 Someone else 4
T	4	Who usually makes decisions about visits to your family or relatives?	Read options aloud	You 1 Your husband/partner 2 You and your husband/partner 3 Someone else 4

W	W	Social life and physical security	
W	1	We will now ask you some questions about how safe you feel in different situations.	a) How safe you feel in the following situations today? b) How safe did you feel 5 years ago?
W	2	Categories	a Today b 5 years ago
	1	Walking alone in your area during daytime	Not safe 1. Fairly safe 2. Completely safe 3. Not applicable... 99
	2	Walking alone in your area at night	Not safe 1. Fairly safe 2. Completely safe 3. Not applicable... 99
	3	Being alone at home during daytime	Not safe 1. Fairly safe 2. Completely safe 3. Not applicable... 99
	4	Being alone at home at night	Not safe 1. Fairly safe 2. Completely safe 3. Not applicable... 99
	5	Waiting for, or in public transport (in your area)	Not safe 1. Fairly safe 2. Completely safe 3. Not applicable... 99
	6	At the workplace (e.g. fields, market, job, etc.)	Not safe 1. Fairly safe 2. Completely safe 3. Not applicable... 99
	7	In public places, e.g. shopping centre, church	Not safe 1. Fairly safe 2. Completely safe 3. Not applicable... 99
	8	When collecting firewood	Not safe 1. Fairly safe 2. Completely safe 3. Not applicable... 99
	9	When fetching water	Not safe 1. Fairly safe 2. Completely safe 3. Not applicable... 99

This last section presents a few questions related to the Global pandemic and period of closed schools.

Unit: Household

GP	1	Has anybody 12 years or above in this household changed their main occupation over the last year during the global pandemic up to today?		Yes...1 No...2 → GP 5
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Section GP 2-4 is for members 12 years old and above only.

Unit: Household members: MemberNo

GP	2	Which household members have changed their main occupation over the last year during the global pandemic up to today?	(CSPs to present series of household member numbers and names for persons 12 years and above)	Household member number
GP	3	What was [NAME]'s main occupation before the global pandemic started last year?	CSPs to present questions for persons who have changed main occupation only.	Farmer with non-family employees...01 Farmer with only family members...02 Farm worker...03 Non-farm business with non-family employees...04 Non-farm business with only family employees...05 Unpaid assistance in family enterprise (Carer/ Day Labour)...06 Wage Employee in Private Company (with contract)...08 Wage Employee in Private Company (without contract)...09 Wage Employee in Government (government owned company)...11 Was not working, but was looking for work and has worked previously...12 Skip → GP 3 Next person, 'Next person' → GP 5 Was not working, but was looking for work. Had never worked before...14 Skip → GP 3 Next person, 'Next person' → GP 5 Was not working, and was not looking for work (student, retired, disabled etc)...17 Skip → GP 3 Next person, 'Next person' → GP 5

GP	4	What was the main activity at [NAME]'s place of work before the global pandemic started last year?	(Codes based on ISIC rev. 4)	Agriculture - crops/forestry...11 Agriculture - animal husbandry...12 Fishing...13 Mining & quarrying...14 Manufacturing...15 Electricity and water supply...16 Building and construction...17 Trade...18 Repair...19 Transportation...20 Accommodation and food services...21 Information and communication...22 Financial, professional, technical and support services Public administration and defence...24 Education...25 Human health and social work...26 Arts, entertainment and recreation...27 Personal services...28 Domestic service...29 Exchanges and international organizations...30 All → GP 5 Next person, 'Next person' → GP 5
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Section GP 5-13 is for households

Unit: Household

GP		Has the household income from the following sources increased, stayed the same or decreased over the last year during the global pandemic up to today?		
GP	5	Family farming, livestock or fishing		Increased...1 Stayed the same...2 Decreased...3 No such income, not applicable...4
GP	6	Non-agricultural family businesses, including family businesses		Increased...1 Stayed the same...2 Decreased...3 No such income, not applicable...4
GP	7	Salaried employment of household members		Increased...1 Stayed the same...2 Decreased...3 No such income, not applicable...4
GP	8	Unemployment benefits		Increased...1 Stayed the same...2 Decreased...3 No such income, not applicable...4
GP	9	Remittances from abroad		Increased...1 Stayed the same...2 Decreased...3 No such income, not applicable...4
GP	10	Remittances within the country		Increased...1 Stayed the same...2 Decreased...3 No such income, not applicable...4
GP	11	Income from property, investments or savings		Increased...1 Stayed the same...2 Decreased...3 No such income, not applicable...4
GP	12	Pension		Increased...1 Stayed the same...2 Decreased...3 No such income, not applicable...4
GP	13	Government Assistance		Increased...1 Stayed the same...2 Decreased...3 No such income, not applicable...4

GP	14	Financial assistance from friends / family		Increased...1 Stayed the same...2 Decreased...3 No such income, not applicable...4
GP	15	Assistance from NGOs / charity organizations		Increased...1 Stayed the same...2 Decreased...3 No such income, not applicable...4
GP	16	Thank you for all this detailed information! What about the total household income, has that increased, stayed the same or decreased?		Increased...1 Stayed the same...2 Decreased...3
GP	17	Have your use of electrical power increased, stayed the same or decreased over the last year during the global pandemic up to today?		Increased...1 Stayed the same...2 Decreased...3 We have no electricity, not applicable...4
GP	18	Have you changed the type of fuel you have been using over the last year during the global pandemic up to today?		No, continued with the same fuel...1 GP29 Yes, switched fuel...2
GP	19	What type of fuel did you use before the global pandemic started last year for your main stove?		Pine wood, dung, twigs and leaves...1 Charcoal...2 Kerosene...3 Kerosene, paraffin or kerosene...4 LPG, biogas...5 Electricity...6 Solar cook (non-electric)...7
GP	20	Have your consumption of fuel for cooking increased, stayed the same or decreased over the last year during the global pandemic up to today?		Increased...1 Stayed the same...2 Decreased...3
GP	21	Have you changed which stove to use as your main stove over the last year during the global pandemic up to today?		No, continued with the same stove...1 GP2 Yes, have changed to another main stove...2
GP	22	Which type of stove did you use as your main stove before the global pandemic started last year?		No change of oven...999 Three-stone stove...101 Round stone stove...102 ICS w/o chimney for charcoal...111 ICS w/o metal slag...112 Rocket stove...121 High efficiency forced draft/stove...122 Looza 1 Rocket stove w/ high chimney...131 Rocket stove metal w/internal chimney...132 Looza 2 Rocket stove w/ well-sealed chimney...141 Metal rocket stove...142 Traditional charcoal stove - Open access for air...201 Traditional mixed charcoal stove...202 Charcoal stove, Old ICS: Opening for air may be closed...311 Ceramic lined charcoal ICS...321 Ceramic lined and insulated charcoal ICS...321 Kerosene cooking stove (Mobile)...331 Efficient charcoal stove with controlled airflow...341 Gasifier stove...351 See dust, mix brick gasifier stove...352 Lilo 1 Gasifier stove without air & chimney...341 Briquet stove...401 Multiple LPG stove...402 Single LPG stove...403 Electrical stove...405 Electrical plate without oven...405 LPG+gas and electrical stove...405 Solar cooker (non-electric)...471
GP	23	Have you sold any of household items since before the global pandemic started last year?		Yes...1 No...2 skip to GP 25

GP	24	Which type of items did you sell?	Multiple answers	<p>1. Bed 2. Table 3. Bicycle 4. Motorcycle 5. Car 6. Radio using batteries 7. Mobile phone charger 8. Electric radio 9. Fan 10. Refrigerator 11. Microwave oven 12. Freezer 13. Washing machine 14. Electric sewing machine 15. Air Conditioner (AC) 16. Computer/ Tablet 17. Electric hot water pot/kettle 18. TV 19. Electric water pump</p>
GP	25	Have your total consumption increased, stayed the same or decreased over the last year during the global pandemic up to today?		<p>Increased...1 Stayed the same...2 Decreased...3</p>
GP	26	The final section is about the livelihood of your household. Did you have to close down any household production over the last year during the global pandemic up to today? [ANSWER YES, EVEN IF YOU STILL HAVE SOME LEFT]	CSPro to make adequate skips Skip to the first Yes answer and then continue with the remaining Yes - productions	<p>Multiple answers - Follow up questions for all positive product groups</p> <p>Yes, agricultural by-products, including flour, starch, juice, beer, jam, oil, seed, bran, etc Yes, livestock by-products (milk, cheese), b Yes, fresh/processed fish... c Yes, firewood, home-made charcoal...d Yes, construction timber, wood-poles or other construction material... e Yes, mats, bricks, case furniture, weave baskets, thatch grass... f No...x</p>
		[PRODUCT]		Was any electricity used for light or machinery for this production?
GP	27	Agricultural by-products, including flour, starch, juice, beer, jam, oil, seed, bran, etc		Yes 1 No..2
GP	28	Livestock by-products (milk, cheese)		Yes 1 No..2
GP	29	Fresh/processed fish		Yes 1 No..2
GP	30	Firewood, home-made charcoal		Yes 1 No..2
GP	31	Construction timber, wood-poles or other construction material		Yes 1 No..2
GP	32	Mats, bricks, case furniture, weave baskets, thatch grass etc		Yes 1 No..2
GP	33	Did you have to close down any household business or service over the last year during the global pandemic up to today? [ANSWER YES, EVEN IF YOU STILL HAVE SOME LEFT]	CSPro to make adequate skips Skip to the first Yes answer and then continue with the remaining Yes - businesses/services	<p>Multiple answers - Follow up questions for all positive businesses/ services</p> <p>Yes, offer professional services as a doctor, accountant, lawyer, translator, private tutor, midwife, masseur, etc. Yes, run a household-owned shop or provide a service from home such as a carwash, metal worker, mechanic, carpenter, barber, tailor etc... b Yes, own a trading or service business on a street or in a market... c Yes, drive a household-owned taxi or pick-up truck to provide transportation or moving services... d Yes, own a bar or restaurant... e Yes, own any other non-agricultural business, even if it is a small business run from home or on a street... f</p>
		Did you close down any [BUSINESS] or any [SERVICE]?		Was any electricity used for light or machinery for this business/service?
GP	34	offer professional services as a doctor, accountant, lawyer, translator, private tutor, midwife, masseur, etc?		Yes 1 No..2
GP	35	run a household-owned shop or provide a service from home such as a carwash, metal worker, mechanic, carpenter, barber, tailor etc?		Yes 1 No..2
GP	36	own a trading or service business on a street or in a market?		Yes 1 No..2
GP	37	drive a household-owned taxi or pick-up truck to provide transportation or moving services?		Yes 1 No..2
GP	38	own a bar or restaurant?		Yes 1 No..2
GP	39	own any other non-agricultural business, even if it is a small business run from home or on a street?		Yes 1 No..2
GP	40	Did anybody in the household do some piecemeal farm work before the global pandemic started last year?		Yes 1 No..2
GP	41	Did anybody in the household do some other piecemeal work for a business or somebody outside the household before the global pandemic started last year?		Yes 1 No..2
GP	42	Did anybody in the household do some public work (for the government, donors, charities) such as cash-for-work before the global pandemic started last year?		Yes 1 No..2
GP	43	Did anybody in this household go for work outside the community before the global pandemic started last year?		Yes 1 No..2

		Telephone number for future contact	
		<i>Only for households with at least 1 telephone (C128 > 0).</i>	
X	1	<p>*It is important for INE/NBS to follow up on the cost of being interviewed over the phone will be covered by (INBSINE). [In case of Mozambique]. We would therefore like to do a follow up of this interview in a year or two. Is it all right with you that INE/NBS contact you by telephone for this purpose?</p>	<p>The respondent will be contacted by phone. We will first send a test message with information about the interview and one week later we will call you to do the interview.</p> <p>Yea...1 No...2 -> skip to AA20</p>
X	2	<p>Thank you. On which telephone number or numbers can we contact you?</p>	<p>Interviewer may record up to 3 telephone numbers. <small>(Up to 3 telephone numbers. 10 digits)</small></p>
AA	20	Interview particulars - continued	Telephone number
AA	21	*Date of interview completed/edited	Day Month
AA	22	Final status for the interview	Completed..1 Never completed (cancel or refusal)..2
AA	23	Interviewer's ID number and check mark	Interviewer ID
AA	24	Checked by the interviewer according to instructions	Day Month
AA	25	Supervisor's ID number and check mark	Supervisor ID
		Checked by the supervisor according to instructions	Day Month