

	A.12	A.13	A.14	A.15	A.16	A.17	A.18	A.19
Individual ID	Interviewer / CAPI: Is [NAME] 15 years or older? Yes...1 No...2→ NEXT PERSON	What was [NAME]’s main occupation for the last 12 months? Wage Employee, Non-Farm.....1 Wage Employee, Farm.....2 Self-Employed Non-Farm-Business enterprise.....3 Self-Employed Non-Farm-Independent contractor, technician, professional, etc.4 Self-Employed Agriculture/Livestock5 Assistance in family enterprise.....6→ A.16 Casual/Day Laborer.....7→ A.16 Intern/free labor/voluntary work.....8 Student.....9→ B.1 Retired/pensioner.....10→ B.1 Too old to work.....11→ B.1 Disabled.....12→ B.1 Job Seeker.....13→ B.1 Unemployed.....14→ B.1 Housewife.....15→B.1 Other (specify).....555	Please describe the kind of trade or business [NAME]’s main occupation best fits from the list of industries. INDUSTRY CODE A - Agriculture, forestry and fishing B - Mining and quarrying C - Manufacturing D - Electricity, gas, steam and air conditioning supply E - Water supply; sewerage, waste management and remediation activities F - Construction G - Wholesale and retail trade; repair of motor vehicles and motorcycles H - Transportation and storage I - Accommodation and food service activities J - Information and communication K - Financial and insurance activities L - Real estate activities M - Professional, scientific and technical activities N - Administrative and support service activities O - Public administration and defense; compulsory social security P - Education Q - Human health and social work activities R - Arts, entertainment and recreation S - Other service activities T - Activities of households as employers; undifferentiated goods- and services-producing activities of households for own use U - Activities of extraterritorial organizations and bodies	Out of the last 12 months, how many months were [NAME] engaged in this activity? Max 12 MONTHS	How many days per month does [NAME] work in this activity? DAYS		Does [NAME] operate any non-agricultural/ business/ enterprise within this household or compound? Yes...1 No...2→ B.1	How many employees does this business/ enterprise have? Number of employees including full time and Part time
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Comments:

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B. HOUSEHOLD CHARACTERISTICS*Interviewer Instructions: The Respondent should be the head of household.*

#	Question	Response	Response Code
B.1	Enumerator: Record Respondent ID for this section		Individual ID from Household Roster
B.2	Does your household live in this dwelling for the entire year?		Yes.....1 → B.4 No.....2
B.3	Is this your main dwelling? The dwelling that you live in for most of the year.		Yes.....1 No.....2
B.4	What is the type of dwelling?		A single house occupied by one household dwelling.....1 → B.6 A house occupied by multiple households.....2 Multi-storied building with one household.....3 → B.6 Multi-storied building with more households.....4 Group of enclosed dwellings: multiple households....5 Group of enclosed dwellings occupied by a single household.....6 → B.6 Other, specify.....555
B.5	How many households share your dwelling?		Number of households
B.6	Do you own this dwelling?		Yes.....1 → B.9 No.....2
B.7	Do you use it for free or rent it?		Free.....1 → B.9 Rented.....2 → B.8
B.8	How many rooms (excluding the kitchen, toilet, and bathroom) does the household occupy?		Record number of rooms
B.9	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 Blocks, plastered with cement.....7 Blocks, unplastered.....8 Bricks.....9 Mud bricks (traditional).....10 Steel.....11 Cargo container.....12 Parquet or polished wood.....13 Chip wood.....14 Corrugated iron/zinc sheet.....15 Asbestos.....16 Reed/bamboo.....17 Other, specify.....555
B.10	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 Bricks.....4 Corrugated iron sheet.....5 Asbestos.....6 Reed/bamboo.....7 Plastic canvas/Tarpaulin.....8 Other, specify.....555
B.11	The floor of the dwelling is mainly made of what material? Check with observation		Mud/Dung.....1 Reed/bamboo.....2 Wood planks.....3 Parquet or polished wood.....4 Cement screed.....5 Plastic tiles.....6 Cement tiles.....7 Brick tiles.....8 Ceramic/Marble tiles.....9 Other, specify.....555
B.12	What type of toilet facility does your household use? Multiple responses possible.		None (open field).....1 Flush to sewage.....2 Flush to septic tank.....3 Pail/Bucket.....4 Covered pit latrine.....5 Uncovered pit latrine.....6 Community latrine.....7 Other, specify.....555
B.13	What is your household's main source of drinking water?		Pipe borne water treated.....1 Pipe borne water untreated.....2 Bore hole/ hand pump.....3

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			Electric water pump.....4 Well/spring protected.....5 Well/spring unprotected.....6 River/spring.....7 Lake/reservoir.....8 Rain water.....9 Tanker/truck/vendor.....10 Sachet water.....11 Bottle water.....12 Other, specify.....555
B.14	Is your drinking water treated (chemical treatment)?		Yes.....1 No.....2 Don't know.....888
B.15	If you can get a loan/credit, what are the sources of credit/loans? <i>Multiple responses possible</i>		Commercial/government bank.....1 Cooperative credit union.....2 Microfinance institution.....3 Rural bank.....4 State loan.....5 NGO.....6 Business firm.....7 Employer.....8 Moneylender.....9 Shop.....10 Relative/friend/neighbor.....11 Mobile money services12 Cannot get a loan/credit.....13 Other, specify.....555
B.16	Do you have a mobile money account?		Yes.....1 → B.18 No.....2
B.17	Do you use mobile money to make payments over the mobile phone?		Yes.....1 No.....2 → C.1
B.18	Have you used the account in the past 90 days?		Yes.....1 No.....2
B.19	How do you use the mobile money services? (Mark all that apply)		Receive money from family/friends/other.....1 Transfer credit to family/relatives.....2 Top up credit.....3 Receive NGO/State support.....4 Pay for Electricity.....5 Pay for Water.....6 Internet top-up/credit.....7 Commercial purchases.....8 Insurance.....9 Loan payments.....10 Savings.....11 Get small loans from mobile provider12 Other, specify.....555

C. SUPPLY AND DEMAND OF ELECTRICITY

Instructions: This module should be completed by the most knowledgeable member on household electricity.

Concerted answers should be allowed.

C.1	Enumerator: Record Respondent ID for this section	<input type="text"/>	Individual ID from Household Roster
Electricity from National Grid			
C.2	Is the household connected to the national grid?		Yes.....1 → C.7 No.....2
C.3	How far is your house from the nearest national grid line?		Km [<input type="text"/>] Do not know... 888
C.4	What is the MAIN reason why your household is not connected to the grid? <i>Record the MAIN reason.</i>		Grid is too far from household/not available.....1 Cost of initial connection is too expensive.....2 Monthly fee is too expensive.....3 Satisfied with current energy solution.....4 Renting, Landlord decision.....5 Service Unreliable.....6

Comments:

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			Administrative procedure is too complicated.....7 Submitted application and waiting for connection.....8 Company refused to connect the household.....9 Other, specify.....555
C.5	Do you expect to get grid connection?		Yes.....1→C.6 Don't expect to get grid connection.....999→C.38 Don't know.....888→C.38
C.6	What month and year do you expect to get grid connection?	a. MM <input type="text"/> <input type="text"/> b. YYYY <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Month and Year ALL RESPONSES→C.38
C.7	How many years have you had this grid connection? Record in years, if less than 1 year record 1	<input type="text"/>	Number of Years
C.8	How much did your household pay for the grid connection fee? Refer to connection fee ONLY.	<input type="text"/>	Local currency Don't know.....888 Household was already connected.....111→C.12
C.9	How much did your household pay for the internal wiring fee? Do not include the connection fee from C.8 here	<input type="text"/>	Local currency Don't know.....888
C.10	How many weeks after you applied for the grid connection did your household get connected? (Insert 0 if immediate)		Number of weeks Don't know.....888
C.11	How many weeks after you were connected were you able to use electricity in your home? (Insert 0 if immediate)		Number of weeks Don't know.....888
C.12	Who receives the payment for your electricity service?		Energy company/LEC.....1 Pre-paid meter card seller.....2 Community/village/municipality.....3 Relative.....4 Neighbor.....5 Landlord.....6 No one.....7→C.21 Mobile money payment.....8 Other, specify.....555
C.13	Does your household have an electric meter?		Yes.....1 No.....2→C.17
C.14	Is this a pre-paid meter?		Yes.....1 No.....2
C.15	Does your household share the electric meter?		Yes.....1 No.....2→C.18
C.16	How many households are sharing the meter?		Number of Households ALL→C.18
C.17	How are you billed for electricity?		Fixed monthly fee.....1 Pay based on lights and appliances used.....2 Utility estimates consumption.....3 Other, specify.....555 No bill for electricity.....111
C.18	What is the most common way you make your electricity bill payment?		Cash.....1 Vouchers/token/pre-paid card from local store.....2 Credits using mobile money.....3 Pay at the utility office.....4 Pay at the bank/post office.....5 Other, specify.....555
C.19	Enumerator: 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 C.20 and C.21 .	<input type="text"/>	Respondent has energy bill and shows it.....1 Respondent has energy bill but refuses to show it or could not locate it.....2 Respondent does not have an energy bill.....3
C.20	In a typical month, how much did you spend on the electric bill? Calculate amount paid from the last bill.	<input type="text"/>	Local Currency Don't Know.....888
C.21	In a typical month how much electricity did your household consume? Calculate the consumption from the last bill.	<input type="text"/> kWh	Quantity in Kilowatt Hour (kWh) Don't Know.....888
C.22	Is the quality of electricity service the same all year?		Yes.....1→C.24 No.....2
C.23	What are the worst months for service from the grid?	a. <input type="text"/> <input type="text"/> b. <input type="text"/> <input type="text"/>	January.....1 February.....2 March.....3

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	<p><i>Multiple responses are possible. Record all months when household has the lowest number of hours of electricity supply.</i></p>	<p>c. <input type="checkbox"/> <input type="checkbox"/></p> <p>d. <input type="checkbox"/> <input type="checkbox"/></p> <p>e. <input type="checkbox"/> <input type="checkbox"/></p> <p>f. <input type="checkbox"/> <input type="checkbox"/></p> <p>g. <input type="checkbox"/> <input type="checkbox"/></p> <p>h. <input type="checkbox"/> <input type="checkbox"/></p> <p>i. <input type="checkbox"/> <input type="checkbox"/></p> <p>j. <input type="checkbox"/> <input type="checkbox"/></p> <p>k. <input type="checkbox"/> <input type="checkbox"/></p> <p>l. <input type="checkbox"/> <input type="checkbox"/></p>	<p>April.....4</p> <p>May.....5</p> <p>June.....6</p> <p>July.....7</p> <p>August.....8</p> <p>September.....9</p> <p>October.....10</p> <p>November.....11</p> <p>December.....12</p> <p>Don't Know.....888</p>
<p><i>Ask respondent first about the worst months and then about a typical month for C.24 to C.29 If no seasonal changes, ask only about a typical month. Ask questions by ROW.</i></p>		<p>A. WORST MONTHS</p>	<p>B. TYPICAL MONTH</p>
C.24	<p>Do you receive information about a “load-shedding” schedule from LEC? (load shedding is the set hours of electricity available from the grid)</p>		<p>Yes.....1</p> <p>No.....2</p>
C.25	<p>How many hours of electricity are available each day and night from the grid? (max 24 hours)</p>	<p><input type="text"/></p> <p>hours</p>	<p><input type="text"/></p> <p>hours</p> <p>Hours of supply</p> <p>Don't know.....888</p>
C.26	<p>How many hours of electricity are available each evening, from 6:00 pm to 10:00 pm from the grid? (max 4 hours)</p>	<p><input type="text"/></p> <p>hours</p>	<p><input type="text"/></p> <p>hours</p> <p>Hours of supply</p> <p>Don't know.....888</p>
C.27	<p>How many hours of electricity do you use each day and night from the grid? <i>Cannot exceed number of available hours in C.25</i></p>	<p><input type="text"/></p> <p>hours</p>	<p><input type="text"/></p> <p>hours</p> <p>Hours of supply</p> <p>Don't know.....888</p>
C.28	<p>How many outages/blackouts occur in a week?</p>	<p><input type="text"/></p>	<p><input type="text"/></p> <p>Number of outages/blackouts</p> <p>No outages/blackouts... 111 →C.30</p> <p>Don't know.....888</p>
C.29	<p>What is the total duration of all the outages/blackouts in a week?</p>	<p>a. Hours <input type="text"/></p> <p>b. Minutes <input type="text"/></p>	<p>a. Hours <input type="text"/></p> <p>b. Minutes <input type="text"/></p> <p>Don't know.....888</p>
C.30	<p>What is your main back-up source of lighting during outages/blackouts of the grid?</p>		<p>Local mini grid connection.....1</p> <p>Electric generator.....2</p> <p>Rechargeable battery and storage devices (e.g.: car battery).....3</p> <p>Solar home system.....4</p> <p>Solar Lantern/ solar lighting system.....5</p> <p>Pico-hydro.....6</p> <p>Kerosene lamp.....7</p> <p>Fuel-based lighting/Jack'o (Jargo) Lantern.....8</p> <p>Dry cell (Non-rechargeable) battery/torch/flashlight.....9</p> <p>Candle.....10</p> <p>Other, specify.....555</p> <p>No back-up source.....111</p>
C.31	<p>What is your main back-up source of electricity for appliances (including mobile phone charging) during outages/blackouts of the grid?</p>		<p>Local mini grid connection.....1</p> <p>Electric Generator.....2</p> <p>Rechargeable battery and storage devices (e.g.: car battery).....3</p> <p>Solar Home System.....4</p> <p>Solar Lantern/lighting system.....5</p> <p>Other, specify.....555</p> <p>No back-up source.....111</p>
C.32	<p>How do you request for repairs in electricity service or file a complaint?</p>		<p>Call/SMS utility company.....1</p> <p>Call a local technician.....2</p> <p>Send a letter/email.....3</p> <p>Social media.....4</p> <p>Talk to community representative.....5</p> <p>No system to request repairs/file complaint.....6</p> <p>Other, specify.....555</p>

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C.33	When there is a blackout in your community, who do you usually approach for assistance?		The power company.....1 Someone not from power company.....2 No-one: we wait until power returns.....3→C.35
C.34	The last time you asked for assistance, how many days after you contacted [C.33 response] did they come to fix the problem? Enumerator: Response can be given in hours and multiplied by 24		Number of days
C.35	In the last 12 months, did any of your appliances get damaged because the voltage was going up and down from the grid?	<input type="checkbox"/>	Yes.....1 No.....2 Don't know.....888
C.36	What are the most serious problems you experience with your grid electricity? Record up to 2 responses.	a. First <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> b. Second <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Supply shortage/not 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 power large appliances.....7 Maintenance/service problems.....8 Unpredictable bills.....9 Electrical shocks.....10 Power theft from my house.....11 Other, specify.....555 No problems.....111
C.37	In the last 12 months, did any household members die or have permanent limb (bodily injury) damage because of the grid electricity?		Yes.....1 No.....2
Electricity from Mini Grid			
C.38	Is the household connected to a mini-grid?		Yes.....1 No.....2→C.75
C.39	Is there a limit for the load and/or appliances you are allowed to power from this mini-grid?		Yes.....1 No.....2 Don't Know.....888
C.40	What is the name of the local mini-grid company?		Name of company
C.41	How many years have you had this mini-grid connection? Record in years, if less than 1 year record 1		Number of Years
C.42	How much did your household pay for the mini-grid connection fee? Refer to connection cost ONLY.		Local currency Don't know.....888 Household was already connected.....111→C.46
C.43	How much did your household pay for the internal wiring? Do not include the connection fee from C.42 here		Local currency Don't know.....888
C.44	How many weeks after you applied for the mini-grid connection did your household get connected? (Insert 0 if immediate)		Number of weeks
C.45	How many weeks after you were connected were you able to use electricity in your home? (Insert 0 if immediate)		Number of weeks
C.46	Have you applied for an upgrade of service since you connected to the mini-grid?		Yes.....1 No.....2
C.47	Who receives the payment for your electricity service?		Energy company.....1 Pre-paid meter card seller.....2 Community/village/municipality.....3 Relative.....4 Neighbor.....5 Landlord.....6 No one.....7→C.58 Other, specify.....555
C.48	Does your household have an electric meter?		Yes.....1 No.....2→C.52
C.49	Is this a pre-paid meter?		Yes.....1 No.....2
C.50	Does your household share the electric meter?		Yes.....1 No.....2→C.53
C.51	How many households are sharing the meter?		Number of Households ALL→C.53
C.52	How are you billed for electricity?		Fixed monthly fee.....1 Pay based on lights and appliances used.....2

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				Utility estimates consumption.....3 Other, specify.....555 No bill for electricity.....111
C.53	What is the most common way you make your electricity bill payment?			Cash.....1 Vouchers from local store.....2 Credits using mobile money.....3
C.54	Were you involved in setting the tariff for the mini-grid?			Yes.....1 No.....2 → C.56
C.55	How were you involved in the tariff setting?			Community meeting.....1 Contacted by mini-grid company.....2 Member of electricity committee.....3 Member of cooperative.....4 Form or survey conducted on household.....5 Other, specify.....555
C.56	Enumerator: 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 C.57 and C.58.	<input type="text"/>		Respondent has energy bill and shows it.....1 Respondent has energy bill but refuses to show it or could not locate it.....2 Respondent does not have an energy bill.....3
C.57	In the last month, how much did you spend on the electric bill? Calculate amount paid from the last bill.	<input type="text"/>		Local Currency Don't Know.....888
C.58	In the last month how much electricity did your household use? Calculate the consumption from the last bill.	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> kWh		Quantity in Kilowatt Hour (kWh) Don't Know.....888
C.59	Is the quality of electricity service the same all year?			Yes.....1 → C.61 No.....2
C.60	What are the worst months for service from the mini-grid? Multiple responses are possible. Record all months when household has the lowest number of hours of electricity supply.	a. <input type="text"/> b. <input type="text"/> c. <input type="text"/> d. <input type="text"/> e. <input type="text"/> f. <input type="text"/> g. <input type="text"/> h. <input type="text"/> i. <input type="text"/> j. <input type="text"/> k. <input type="text"/> l. <input type="text"/>		January.....1 February.....2 March.....3 April.....4 May.....5 June.....6 July.....7 August.....8 September.....9 October.....10 November.....11 December.....12 Don't Know.....888
Ask respondent first about the worst months and then about a typical month for C.61- C.66 If no seasonal changes, ask only about a typical month. Ask questions by ROW.		A. WORST MONTHS	B. TYPICAL MONTH	
C.61	Do you receive information about a “load-shedding” schedule (load shedding is the set hours of electricity available from the mini grid)?			Yes.....1 No.....2
C.62	How many hours of electricity are available each day and night from the mini-grid? (max 24 hours)	<input type="text"/> hours	<input type="text"/> hours	Hours of supply Don't know.....888
C.63	How many hours of electricity are available each evening, from 6:00 pm to 10:00 pm from the mini-grid? (max 4 hours)	<input type="text"/> hours	<input type="text"/> hours	Hours of supply Don't know.....888
C.64	How many hours of electricity do you use each day from the mini-grid? Cannot exceed number of available hours in C.62	<input type="text"/> hours	<input type="text"/> hours	Hours of supply Don't know.....888
C.65	How many outages/blackouts occur in a week?	<input type="text"/>	<input type="text"/>	Number of outages/blackouts Don't know.....888 No outages/blackouts... 111 → C.67

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C.66	What is the total duration of all the outages/blackouts in a week?	c. Hours _ _ _ d. Minutes _ _ _	c. Hours _ _ _ d. Minutes _ _ _	Don't know.....888
C.67	What is your main back-up source of lighting during outages/blackouts of the grid?			Electric generator.....1 Rechargeable battery and storage devices (e.g.: car battery).....2 Solar Home System.....3 Solar Lantern/Lighting system.....4 Pico-hydro.....5 Kerosene lamp.....6 Fuel-based lighting/Jargo Lantern.....7 Dry-cell (Non-rechargeable) batter/torch/flashlight8 Candle.....9 Other, specify.....555 No back-up source.....111
C.68	What is your main back-up source of electricity for appliances during outages/blackouts of the mini-grid?			Electric generator.....1 Rechargeable battery and storage devices (e.g.: car battery).....2 Solar Home System.....3 Solar Lantern/Lighting system.....4 Other, specify.....555 No back-up source.....111
C.69	How do you request for repairs in electricity service or file a complaint?			Call/SMS mini-grid operator.....1 Call a local technician.....2 Send a letter/email.....3 Social media.....4 Talk to community representative.....5 No system to request repairs/file complaint.....6 Other, specify.....555
C.70	When there is a blackout in your community, who do you usually approach for assistance?			The power company.....1 Someone not from power company.....2 No-one: we wait until power returns.....3→C.72
C.71	The last time you asked for assistance, how many days after you contacted [C.70 response] did they come to fix the problem?			Number of days Don't know.....888
C.72	In the last 12 months, did any of your appliances get damaged because the voltage was going up and down from the mini grid?	<input type="checkbox"/>		Yes.....1 No.....2 Don't know.....888
C.73	What are the most serious problems you experience with your mini grid electricity? Record up to 2 responses.	c. First _ _ _ d. Second _ _ _		Supply shortage/not enough hours of electricity.....1 Low/high voltage problems or voltage fluctuations.....2 Unpredictable interruptions.....3 Unexpectedly high bills.....4 Too expensive.....5 Do not trust the supplier.....6 Cannot power large appliances.....7 Maintenance/service problems.....8 Unpredictable bills.....9 Electrical shocks.....10 Power theft from my house.....11 Other, specify.....555 No problems.....111
C.74	In the last 12 months, did any household members die or have permanent limb (bodily injury) damage because of the mini grid electricity?			Yes.....1 No.....2

Electric Generator set				
C.75	In the last 12 months, did the household use a generator to supply electricity?			Yes.....1 No.....2→C.104
C.76	How many generators does your household use to supply electricity? If multiple generators, ask following questions about main generator.			Number of generators Don't know.....888
C.77	Do you share this generator with other households?			Yes.....1 No.....2→C.79
C.78	How many households are sharing electricity from this generator?			Number of households

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			Don't know.....888
C.79	Enumerator Observation: What is the capacity of the generator? Read name plate of the generator.		Volt Amps (kVA) Don't know.....888
C.80	In the last 12 months, in which months did you use this generator or did you use it all year? Multiple responses possible	a. b. c. d. e. f. g. h. i. j. k. l.	January.....1 February.....2 March.....3 April.....4 May.....5 June.....6 July.....7 August.....8 September.....9 October.....10 November.....11 December.....12 Used all year.....111
C.81	How many days per month did you typically use this generator?		Number of days Don't know.....888
C.82	In the last 12 months, what did your household use this generator for? Multiple responses possible	a. b. c. d.	Lighting.....1 Appliances.....2 Home-based income activity.....3 Other, specify.....555 Don't know.....888
C.83	How many years have you used this generator? Record in years, if less than 1 year record 1		Number of Years Don't know.....888
C.84	Does your household own the generator?		Yes.....1→C.89 No.....2
C.85	Who owns the generator?		Other Household.....1 Community organization.....2 Private person/entity.....3 Other, specify.....555 Don't know.....888
C.86	Do you rent the generator or use it for free?		Rent.....1 Use for free.....2→C.91
C.87	How do you pay for electricity services from the generator?		Fixed payment (per month or week).....1 Charge by number of lights/appliances.....2 Charge per kWh.....3 Pay for fuel only.....4→C.91 Other, specify.....555
C.88	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.		Local currency Don't know.....888 ALL→C.91
C.89	How much did you pay to purchase the generator?		Local currency Don't know.....888
C.90	In the last 12 months, how much did you pay for repairs/parts/maintenance of the generator?		Local currency Don't know.....888
C.91	What fuel is used to power the generator?		Diesel.....1 Gasoline.....2 Other, specify.....555 Don't know.....888
C.92	In the last 30 days, what was the total quantity of fuel used to power the generator?	a. Amount 	Gallons Don't know.....888
C.93	Do you pay for the fuel used to power the generator?		Yes.....1 No.....2→C.96
C.94	In the last 30 days, how much did your household spend on fuel for this generator?		Local currency Don't know.....888
C.95	Is the generator the household's main source of electricity?		Yes.....1 No.....2→C.98
C.96	Are there certain months/seasons of the year when less fuel is available to power the generator?		Yes.....1 No.....2→C.98

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C.97	What are the worst months of fuel availability for the generator? <i>Multiple responses are possible. Record all months for the worst fuel availability.</i>	a. <input type="checkbox"/>	January.....1
		b. <input type="checkbox"/>	February.....2
		c. <input type="checkbox"/>	March.....3
		d. <input type="checkbox"/>	April.....4
		e. <input type="checkbox"/>	May.....5
		f. <input type="checkbox"/>	June.....6
		g. <input type="checkbox"/>	July.....7
		h. <input type="checkbox"/>	August.....8
		i. <input type="checkbox"/>	September.....9
		j. <input type="checkbox"/>	October.....10
		k. <input type="checkbox"/>	November.....11
		l. <input type="checkbox"/>	December.....12

<i>Ask respondent first about the worst months and then about a typical month for C.98-C.100 If no seasonal changes (C.96) or not the main source (C.95) ask only about a typical month. Ask questions by ROW.</i>		A. WORST MONTHS	B. TYPICAL MONTH	
C.98	How many hours could you use this generator each day and night if you wanted to? (max 24 hours)	<input type="text"/> hours	<input type="text"/> hours	Hours of supply Don't know.....888
C.99	How many hours could you use this generator each evening, from 6:00 pm to 10:00 pm if you wanted to? (max 4 hours)	<input type="text"/> hours	<input type="text"/> hours	Hours of supply Don't know.....888
C.100	How many hours do you actually use this generator each day ? (Cannot be more than C.98.)	<input type="text"/> hours	<input type="text"/> hours	Hours of supply Don't know.....888
C.101	In the last 12 months, did any of your appliances get damaged because the voltage was going up and down from the generator?			Yes.....1 No.....2 Don't know.....888
C.102	What are the most serious problems you experience with the generator? <i>Record up to 2 responses.</i>	a. First <input type="text"/> b. Second <input type="text"/>		Limited power supply.....1 Cannot power large appliances.....2 Too expensive to use (including high cost of fuel/rent).....3 Availability of the fuel.....4 Hard to maintain/service.....5 Loud/Noisy.....6 Unpredictable interruptions.....7 Other, specify.....555 No problems.....111
C.103	In the last 12 months, did any household members die or have permanent limb (bodily injury) damage because of the generator?			Yes.....1 No.....2

Externally Recharged Battery (Car Battery, etc) – skip if this is for backup solutions				
C.104	In the last 12 months, did the household use any rechargeable batteries, such as car batteries, for electricity?			Yes.....1 No.....2 → C.122
C.105	In the last 12 months, in which months did you use rechargeable batteries or did you use it all year? <i>Multiple responses possible</i>	a. <input type="checkbox"/>	January.....1	
		b. <input type="checkbox"/>	February.....2	
		c. <input type="checkbox"/>	March.....3	
		d. <input type="checkbox"/>	April.....4	
		e. <input type="checkbox"/>	May.....5	
		f. <input type="checkbox"/>	June.....6	
		g. <input type="checkbox"/>	July.....7	
		h. <input type="checkbox"/>	August.....8	
		i. <input type="checkbox"/>	September.....9	
		j. <input type="checkbox"/>	October.....10	
		k. <input type="checkbox"/>	November.....11	
		l. <input type="checkbox"/>	December.....12	
			Used all year.....111	
			Don't know.....888	
C.106	In the last 12 months, what did your household use rechargeable batteries for? <i>Multiple responses possible</i>	a. <input type="checkbox"/>	Lighting.....1	
		b. <input type="checkbox"/>	Appliances.....2	
		c. <input type="checkbox"/>	Home-based income activity.....3	
			Other, specify.....555	

Comments:

ID: | | | | | | | | | | | | | | | |

		d.	
C.107	Does your household have an inverter that allows you to use AC appliances?		Yes.....1 No.....2→C.109
C.108	What is the capacity of the inverter?		Watts (W)
C.109	What is the total number of rechargeable batteries that you use in a typical month? <i>Total=number of batteries*number of charges for each battery</i>		Total number of rechargeable batteries. Don't know.....888
C.110	What is the capacity of the rechargeable batteries? <i>If multiple batteries, record capacity for each.</i>	Capacity a. b. c. d.	Ampere-hour Don't know.....888
C.111	What is the voltage of the rechargeable batteries? <i>If multiple batteries, record voltage for each.</i>	Voltage a. b. c. d.	Volts Don't know.....888
C.112	How much did you pay for the rechargeable battery(ies)? <i>If multiple batteries, record costs for each</i>	a. b. c. d.	Local currency Don't Know.....888
C.113	How many recharges for all batteries does your household have in a typical month? <i>If multiple batteries, record the number of recharges for each battery in a typical month.</i>	a. b. c. d.	Number of Recharges Don't know.....888
C.114	Do you pay to recharge the battery?		Yes.....1 No.....2→C.116
C.115	How much does your household spend in a typical month to recharge the batteries (in total)?		Local currency Don't Know.....888
C.116	What is the electricity source used to recharge the battery?		National grid.....1 Local mini-grid.....2 Electric generator.....3 Solar.....4 Other, specify.....55
C.117	Is battery recharging limited by availability of electricity from [SOURCE FROM C.116]?		Yes.....1 No.....2 Don't know.....888
C.118	How many hours can you use rechargeable batteries for electricity supply each day when fully charged if you wanted to? (max 24 hours)		Hours Don't Know.....888
C.119	How many hours do you actually use rechargeable batteries for electricity supply each day ? <i>Cannot exceed number of hours in C.118</i>		Hours Don't Know.....888
C.120	What are the most serious problems you experience with the rechargeable batteries? <i>Record up to 2 responses.</i>	a. First b. Second 	Supply shortage/not 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.....555 No problems.....111
C.121	In the last 12 months, did any household members die or have permanent limb (bodily injury) damage because of the rechargeable batteries?		Yes.....1 No.....2

SOLAR BASED DEVICES

Ask about all devices in order of importance (Example: Main Solar System is Device 1)

C.122	Interviewer/CAPI check: In the last 12 months, did the household use any of the following solar based devices? Multiple responses possible.	Solar home system1 Solar lighting system.....2 Solar lanterns.....3 None.....4 → C.160
C.123	How many solar home systems (SHS) do you have?	Number of solar home systems
C.124	How many solar lighting systems do you have?	Number of solar lighting system
C.125	How many solar lanterns do you have?	Number of solar lanterns

C.126	C.127	C.128	C.129	C.130	C.131	C.132	C.133	C.134	C.135	C.136	C.137	C.138	C.139	C.140	C.141
SOLAR DEVICE	Please show me the [DEVICE] <i>Use photo aid and record the code for the photo that best matches the solar device</i>	What is the manufacturer and model of the [DEVICE]?	CAPI: What is the type of solar device?	How many light bulbs are there (that can be separated from each other)?	What is the power rating of the solar panel? <i>If unknown, enter "888" → C.132</i> <i>Read the name plate of the solar panel</i>	What is the estimated size of the solar panel? SIZE CODE 20cm x20cm or smaller..... .1 40cm x 40cm..... ..2 50cm x 100cm..... ..3 75cm x150cm or larger..... ..4 Other, specify (in width and length)..... 555	What is the capacity of the battery? Amp-hours (Ah) <i>If unknown, enter "888"</i>	Do you have an inverter? Yes...1 No...2	How many years have you had this [DEVICE]? <i>Record in years, if less than 1, record 1</i>	Who decided to purchase/acquire this [DEVICE]?	Did you buy this [DEVICE] paying upfront or under installment, do you rent it/pay a fee to use it, did you receive it for free, or are you using it for free (not owned)? Bought, fully paid.....1 → C.139 Bought, under installment...2 → C.139 Rent/pay fee to use.....3 → C.140 Received for free....4 Use for free (not owned).....5	Who gave you this [DEVICE]?	How much did you pay for this [DEVICE] upfront? <i>Full amount → C.140</i> <i>Partial amount → C.139</i>	What payment system do you use?	What is the monthly payment for this [DEVICE] (installment / fee to rent/use)?
	PHOTO CODE Solar Lantern.....1 Solar Lighting System....2 Solar home System....3	<i>If unknown, enter "888"</i>	Solar Lantern...1 → C.135 Solar lighting system,...2 Solar Home System...3	NUMBER OF LIGHT BULBS	QUANT. in Watt-Peak (Wp)				NUMBER OF YEARS	MEMBER ID	Bought, fully paid.....1 → C.139 Bought, under installment...2 → C.139 Rent/pay fee to use.....3 → C.140 Received for free....4 Use for free (not owned).....5	Local private organizations (NGO).....1 Chief of village.....2 Local government ...3 Relative/Friend4 Other, specify.....555 ALL → C.148	LOCAL CURRENCY	Mobile Pay-as-you-go.....1 Other Pay-as-you go (scratch card, etc.).....2 Fixed fee.....3	LOCAL CURRENCY
1															
2															
3															
4															
5															

Comments:

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MAIN SOLAR-BASED DEVICE

Record information for the MAIN solar-based device, the device listed as "1" in the previous table.

C.146	Are there certain months/seasons every year when the service is not as strong from [DEVICE]?		Yes.....1 No.....2
C.147	What are the worst months for service from [DEVICE]? <i>Multiple responses are possible. Record all months for the lowest hours of service.</i>	a. _____ b. _____ c. _____ d. _____ e. _____ f. _____ g. _____ h. _____ i. _____ j. _____ k. _____ l. _____	January.....1 February.....2 March.....3 April.....4 May.....5 June.....6 July.....7 August.....8 September.....9 October.....10 November.....11 December.....12 Don't Know.....888
<i>Ask respondent first about the worst months and then about a typical month for C.150. Error! Reference source not found.-C.159 If no seasonal changes, ask only about a typical month. Ask questions by ROW.</i>		A. WORST MONTHS	B. TYPICAL MONTH
C.148	How many hours do you receive service from this [DEVICE] each day and night? (max 24 hours)	<input type="text"/> Hours	<input type="text"/> hours Hours of supply Don't know.....888
C.149	How many hours is service available from this [DEVICE] each evening, from 6:00 pm to 10:00 pm? (max 4 hours)	<input type="text"/> Hours	<input type="text"/> hours Hours of supply Don't know.....888
C.150	How many hours do you actually use the [DEVICE] each day for lighting and other applications? (max 24 hours) <i>Cannot exceed hours in C.148</i>	<input type="text"/> Hours	<input type="text"/> hours Hours of supply Don't know.....888
C.151	In the last 12 months, did any household members die or have permanent limb (bodily injury) damage because of the [DEVICE]?		Yes.....1 No.....2
C.152	Is there any device you do not have that you would like to have?		Yes.....1 No.....2 → C.154 Don't know.....888
C.153	What devices would you most like to have? <i>Multiple response (Up to three devices)</i>		Television.....1 Fan.....2 Refrigerator.....3 Radio.....4 Tablet/laptop/computer.....5 Mobile phone charger.....6 Air conditioning.....7 Other, specify.....555 Don't know/refuse to answer.....888
C.154	Overall, how satisfied are you with the service provided by the main solar device?		Very satisfied.....1 Somewhat satisfied.....2 Neutral.....3 Unsatisfied.....4 Very unsatisfied.....5
C.155	In what year did you get your first solar device?		Year Don't know.....888
C.156	Has solar been your main source of lighting/electricity since [YEAR in C.155]?		Yes.....1 → C.158 No.....2 Don't know.....888
C.157	What was your main source of lighting/electricity when it was not a solar device?		National grid connection.....1 Local mini grid connection.....2 Electric generator.....3 Rechargeable battery and storage devices (e.g.: car battery).....4 Kerosene lamp.....6 Fuel-based lighting/Jargo Lantern.....7 Dry-cell battery.....8

Comments:

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			Non-rechargeable lanterns.....9 Candle.....10 Torch/ flashlight.....11 Other, specify.....555
C.158	Compared to the first time you used solar lighting, do you currently... Read aloud options		Use more solar lighting.....1 Use about the same solar lighting.....2 Use less solar lighting.....3 Don't know.....888
C.159	What appliances do you use today that you did not use with your first solar lighting device?		Mobile phone charger.....1 Radio.....2 TV.....3 Fan.....4 Refrigerator.....5 No change.....6 Other, specify.....555

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Main Source of Electricity		
C.160	Of all the sources that you mentioned above, which is the source that you use the most in your household? <i>This will be the MAIN electricity source that is referred to later.</i>	National Grid Connection.....1 Local Mini Grid connection.....2 Electric generator.....3 Solar Home System.....4 Solar Lantern/Lighting System.....5 Rechargeable Battery.....6 Dry-cell battery.....8 No electricity.....9→D.1 Other, specify.....555
CHARGING MOBILE PHONE		
C.161	How many mobile phones do the household members own in total?	If none input "0" →D.1
C.162	Are members of your household able to charge mobile phones inside your dwelling?	Yes.....1 No.....2→C.166
C.163	Are members of your household able to charge all their mobile phones as often as they need inside your dwelling?	Yes.....1 No.....2 Don't know.....888
C.164	Can you charge at least one mobile phone to full charge everyday inside your dwelling?	Yes.....1→Error! Reference source not found. D.1 No.....2
C.165	Can you charge at least one mobile phone to full charge in 3 days inside your dwelling?	Yes.....1 No.....2
C.166	How many mobile phones of your household members do you charge outside your dwelling?	Number of mobile phones <i>If 0→D.1</i>
C.167	Do members of your household have to go more than one-half a kilometer (walk more than 5 minutes) to charge your mobile phones outside your dwelling?	Yes.....1 No.....2
C.168	How much does your household spend each month (in total) on charging the mobile phone(s) outside of your dwelling?	Local currency

D. WILLINGNESS TO PAY FOR A GRID CONNECTION

Respondent should be most knowledgeable member on household electricity.

For each household, CAPI will randomly assign one of the six following amounts in the placeholder $\{CF\}$: 0% of the connection fee in local currency and respectively 14%, 29%, 43%, 57%, 71%, 100%. –

D.1	Interviewer/CAPI check: Is the household connected to the national grid?		Yes.....1→F.1 No.....2
D.2	Enumerator: Record Respondent ID for this section	<input type="text"/>	Individual ID from Household Roster
<p>Electricity requires several types of payments. There are three parts to the cost of electricity: connection, wiring, and monthly use. In other words, to use electricity you need to have a wire from a meter in your house to the pole first. That is the connection. You also need to have wires to connect appliances within your house to the meter. This is the wiring. Finally, to keep using electricity you must pay for what is used and measured by the meter, or it will be turned off, this is the cost of monthly use. I would like to ask you questions only about the first cost of connecting – getting a wire from the electricity poles to a meter on your house.</p> <p>If you could pay a “lump sum” price for an electricity connection, in other words, you are offered a price and a period of time to decide whether to take this price. If you decide to take the price, you have to pay all at once, after which you are immediately connected. As you answer the next few questions, assume that all other wiring fees and monthly service fees for using electricity, once you have the connection, remain the same as they are now.</p>			
D.3	Would you be willing to pay $\{CF\}$ for an electricity connection?		Yes.....1→D.12 No.....2
D.4	Would you be willing to pay $\{CF\}$ for an electricity connection, if you were given 3 months to make the payment? This means that each month you will pay $\{CF/3\}$ per month for 3 months.		Yes.....1→D.12 No.....2 Don't Know.....888
D.5	Why would you not accept the offer?		Cannot afford the payment.....1 Do not need electricity.....2 Electricity service is unreliable....3 Monthly fee is too expensive.....4 Other, specify.....555
D.6	Would you be willing to pay $\{CF\}$ for an electricity connection, if you were given 6 months to make the payment? This means that each month you will pay $\{CF/6\}$ per month for 6 months.		Yes.....1→D.12 No.....2 Don't Know.....888
D.7	Why would you not accept the offer?		Cannot afford the payment.....1 Do not need electricity.....2 Electricity service is unreliable....3 Monthly fee is too expensive.....4 Other, specify.....555
D.8	Would you be willing to pay $\{CF\}$ for an electricity connection, if you were given 12 months to make the payment? This means that each month you will pay $\{CF/12\}$ per month for 12 months.		Yes.....1→D.12 No.....2 Don't Know.....888
D.9	Why would you not accept the offer?		Cannot afford the payment.....1 Do not need electricity.....2 Electricity service is unreliable....3 Monthly fee is too expensive.....4 Other, specify.....555
D.10	If the connection fee were waived, would you get a grid connection?		Yes.....1→D.12 No.....2 Don't Know.....888
D.11	Why would you not accept the offer?		Still cannot afford the wiring costs.....1 Do not need electricity.....2 Electricity service is unreliable....3 Monthly fee is too expensive.....4 Other, specify.....555
D.12	How much do you think it would cost to do all the internal electrical wiring in your house?		Local currency Don't Know.....888
D.13	..Think about the amount you would need to spend each month for electricity, not the		Local currency Don't Know.....888

Comments:

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	connection fee. How much would you need to spend each month for electricity?		
--	--	--	--

E. WILLINGNESS TO PAY FOR SOLAR DEVICE

Respondent should be most knowledgeable member on household electricity.

For each household, CAPI will 1) randomly assign a Tier 1 (high capacity: enough to power a television) or Tier 2 (low capacity: multiple lightbulbs and mobile charging) solar home system; and 2) randomly one of the three following amounts in the placeholder $\{CF\}$: 33%, 66%, or 100% of the solar device in local currency. We will have the market price for the selected.

d.light s300: It has a solar panel, LED wide-angle solar lantern and mobile phone charger. It is 10 times brighter than kerosene. The light has 4 different settings and lasts 4 to 16 hours depending on the setting. For example, the light lasts 16 hours on “low” setting and 4 hours on “High” setting.

d.light D20: It has a solar panel, mobile charging battery pack, two solar lights, two light switches and a portable lantern. The dual light settings provide power for 8 hours on the high setting or up to 15 hours on the low setting. It is 8 times brighter than kerosene and the mobile D.20 battery as a USB port capable of charging mobile phones.

E.1	ENUMERATOR/CAPI check: Is the main source of electricity for this household:		National grid...1→F.1 Mini-grid.....2→F.1 Electric generator.....3 Solar Home System.....4 → F.1 Solar Lantern/Lighting System.....5 Rechargeable Battery.....6 Dry-cell battery.....7 No electricity.....8
E.2	Enumerator: Record Respondent ID for this section	<input style="width: 50px; height: 20px;" type="text"/>	Individual ID from Household Roster
<p>We will ask you questions about a solar home system. Enumerator: show picture and describe what the solar home system can and can't do and the benefits of using a solar home system.</p> <p>If you could pay a “lump sum” price for this solar device; in other words, you are offered a price and if you decide to buy the device, you will have to pay it all at once. As you answer the next few questions, keep in mind the various benefits from this device as well as your household budget.</p>			
E.3	Would you be willing to pay $\{CF\}$ for this solar device?		Yes.....1→F.1 No.....2
E.4	Would you be willing to pay $\{CF\}$ for this solar device, if you were given 6 months to make the payment? This means that each month you will pay $\{CF/6\}$ per month for 6 months.		Yes.....1→F.1 No.....2 Don't Know.....888
E.5	Why would you not accept the offer?		Cannot afford the payment.....1 Do not need electricity.....2 Maintenance/servicing of device is not available.....3 Other, specify.....555
E.6	Would you be willing to pay $\{CF\}$ for this solar device, if you were given 12 months to make the payment? This means that each month you will pay $\{CF/12\}$ per month for 12 months.		Yes.....1→F.1 No.....2 Don't Know.....888
E.7	Why would you not accept the offer?		Cannot afford the payment.....1 Do not need electricity.....2 Maintenance/servicing of device is not available.....3 Other, specify.....555
E.8	Would you be willing to pay $\{CF\}$ for this solar device, if you were given 24 months to make the payment? This means that each month you will pay $\{CF/24\}$ per month for 24 months.		Yes.....1→F.1 No.....2 Don't Know.....888
E.9	Why would you not accept the offer?		Cannot afford the payment.....1 Do not need electricity.....2 Maintenance/servicing of device is not available.....3 Other, specify.....555

Cookstove ID	I.17	I.18		I.19		I.20	I.21	I.22	I.23	I.24	I.25
	Do you regularly clean a chimney, hood or other exhaust system? CODE: Yes.....1 No.....2	In the last 12 months, what are the fuels you used on this cookstove? CODE: LPG/cooking gas.....1 Wood purchased.....2 Wood collected.....3 Charcoal.....4 Solar.....4 Kerosene.....5 Piped Natural Gas.....6 Coal/lignite7 Animal Waste/Dung.....8 Crop Residue/Plant Biomass.....9 Saw Dust.....10 Coal Briquette.....11 Biomass Briquette.....12 Electric.....13 Processed biomass (pellets)/ woodchips.....14 Biogas.....15 Ethanol.....16 Garbage/plastic.....17 Not applicable.....18 Other, specify.....555		In the last 12 months, how often was the [FUEL TYPE] available? Read aloud options CODE: Always available.....1 Mostly available.....2 Sometimes available.....3 Rarely available.....4		How much time do household members spend preparing the cookstove and fuel for each meal on average [including setting up the fuel and turning on the stove but not including gathering fuel or cooking time]?	In the last 7 days, how many days did you use this cookstove?	In the last 7 days, on average, how many times did you light this cookstove per day ?	In the last 7 days, on average, how much time did your household use this cookstove per day to cook or reheat meals (do not include boiling water) in the...		
1											
2											
3											
4											
5											

ID: | | | | | | | | | | | | | | | |

MAIN COOKSTOVE

<i>Enumerator: For households using any solid fuel, estimate the size of the cooking space by filling the following fields.</i>			
I.34	<i>Enumerator: based on responses to I.15 and I.18 does the HH use any solid fuels indoors?</i>		Yes.....1 No.....2 → I.40 Don't Know.....888 → I.40
I.35	Record the rough shape of the cooking space		Roughly square.....1 Roughly rectangular.....2 Roughly Circular.....3 None of the above.....4 → I.39
I.36	Record the dimensions of the cooking space in heel-to-toe paces. Square, record <u>one side</u> Rectangle, record <u>both</u> sides Circle, record <u>diameter</u>		paces x paces
I.37	Record the type of roof covering the cooking space		Flat.....1 Roughly Conical.....2 Gable (triangular cross-section).....3 None of the above.....4 → Error! Reference source not found.I.39
I.38	Estimate the height of the highest point of the ceiling relative to your own height		Smaller than me.....1 My height.....2 1.5 x my height.....3 2 x my height.....4 More than 2 x my height.....5
I.39	How many doors and windows (opening to the outside) does the cooking space have?		Number of Openings
I.40	Can you show me the cookstove you spend the most time cooking on? <i>This is the MAIN cookstove, take a picture of the stove and ask the following questions about only this cookstove.</i>		Record Cookstove ID from previous table
Ask each question for the most used and second most used fuel for this cookstove as identified in I.18 If no second fuel, only ask about the most used fuel.		a. Most used	b. Second most used
I.41	How much do you spend on the [FUEL TYPE] for this stove in the last month/in a typical month when you use the stove? <i>Enter the actual amount spent, not the market value of the fuel.</i>		Amount in Local Currency

J. SPACE AND WATER HEATING

J.1	Do you heat water for washing (either for washing dishes and clothes or for bathing)?		Yes.....1 No.....2 → J.4
J.2	What is the main source you use to heat water? <i>Select one</i>		Electric heater/boiler.....1 → J.4 Electric kettle/coil.....2 → J.4 Electric stove.....3 → J.4 Gas heater.....4 → J.4 Gas stove.....5 → J.4 District heating.....6 → J.4 Solar thermal system.....7 → J.4 Same solid fuel stove used for cooking.....8 → J.4 Separate solid fuel stove.....9
J.3	What is the MAIN fuel you use in this separate solid fuel stove?		LPG/cooking gas.....1 Wood purchased.....2 Wood collected.....3 Charcoal.....4 Solar.....5 Kerosene.....6 Piped Natural Gas.....7 Coal/lignite.....8 Animal Waste/Dung.....9 Crop Residue/Plant Biomass.....10 Saw Dust.....11 Coal Briquette.....12 Biomass Briquette.....13 Electric.....14 Processed biomass (pellets)/ woodchips.....15 Biogas.....16 Ethanol.....17 Garbage/plastic.....18 Not applicable.....19

Comments:

ID: | | | | | | | | | | | | | | | |

			Other, specify.....555
J.4	Do you heat your house?		Yes.....1 No.....2→K
J.5	What is the main source you use to heat your house?		Electric heater.....1→K Gas heater.....2→K District heating.....3→K Solar thermal system.....4→K Same solid fuel stove used for cooking.....5→K Separate solid fuel stove.....6
J.6	What is the MAIN fuel you use in this separate solid fuel stove?		LPG/cooking gas.....1 Wood purchased.....2 Wood collected.....3 Charcoal.....4 Solar.....5 Kerosene.....6 Piped Natural Gas.....7 Coal/lignite8 Animal Waste/Dung.....9 Crop Residue/Plant Biomass.....10 Saw Dust.....11 Coal Briquette.....12 Biomass Briquette.....13 Electric.....14 Processed biomass (pellets)/ woodchips.....15 Biogas.....16 Ethanol.....17 Garbage/plastic.....18 Not applicable.....19 Other, specify.....555

K. WILLINGNESS TO PAY FOR AN IMPROVED COOKSTOVE

This module should be asked to only households WITHOUT an improved cookstove (CAPI/enumerator check). The respondent should be the household member who most frequently cooks food for the household, as identified in A.17 OR the household member who decides to purchase the cookstove in I.28.

For each household, determine whether the primary fuel is wood (or crop residues), charcoal or neither (based on responses in Section H). Then randomly assign one of the four following improved cookstoves:

Fuelwood users – (1) Aspirational wood ICS available in country (2) Popular affordable wood ICS available in local market.

Charcoal users – (1) Aspirational charcoal ICS available in country (2) Popular affordable charcoal ICS available in local market.

(After a type of improved cookstove is randomly chosen, price of this type of cookstove will be assigned based on one of the three percentages of the reference price: 33%, 66% or 100%.)

K.1	CAPI/ Enumerator: Recall responses to Section H (HOUSEHOLD FUEL CONSUMPTION) and record the most frequently used fuel. If not sure, ask respondent.		HH uses more fuelwood or crop residues than charcoal.....1 HH uses more charcoal than fuelwood or crop residues.....2 HH does not use any solid biomass (no charcoal, fuelwood or crop residues).....3→L
K.2	Enumerator: Record Respondent ID for this section		Individual ID from Household Roster
Interview: Please, describe and explain the benefit of having ICS and the features of the assigned cookstove. If you could pay a “lump sum” price for this cookstove. This cookstove can reduce the smoke and fuel consumption significantly. 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.3	Would you be willing to purchase this cookstove at [CAPI: Price]?		Yes.....1 No.....2
K.4	Would you be willing to pay \${CF} for this stove, if you were given 6 months to make the payment? This means that each month you will pay \${CF/6} per month for 6 months.		Yes.....1 → L No.....2 Don't Know.....888
K.5	Why would you not accept the offer?		Cannot afford the payment.....1 Do not need an improved cookstove.....2 Fuel for this stove is unreliable....3 Other, specify.....555

Comments:

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K.6	<p>Would you be willing to pay $\\${CF}$ for this solar device, if you were given 12 months to make the payment? This means that each month you will pay $\\${CF/12}$ per month for 12 months.</p>		<p>Yes.....1 → L No.....2 Don't Know.....888</p>
K.7	<p>Why would you not accept the offer?</p>		<p>Cannot afford the payment.....1 Do not need an improved cookstove.....2 Fuel for this stove is unreliable....3 Other, specify.....555</p>
K.8	<p>Would you be willing to pay $\\${CF}$ for this solar device, if you were given 24 months to make the payment? This means that each month you will pay $\\${CF/24}$ per month for 24 months.</p>		<p>Yes.....1 → L No.....2 Don't Know.....888</p>
K.9	<p>Why would you not accept the offer?</p>		<p>Cannot afford the payment.....1 Do not need an improved cookstove.....2 Fuel for this stove is unreliable....3 Other, specify.....555</p>

