



Energy Survey
Community Questionnaire for Impact Evaluation and Tier Analysis
Version 10 English

A. COMMUNITY IDENTIFICATION

A.1	Region Name		See codebook
A.2	Region Code		See codebook
A.3	District Name		See codebook
A.4	District Code		See codebook
A.5	Village/Town Name		
A.6	Locality		Urban.....1 Rural.....2 Peri-urban.....3
A.7	Interview Language		
A.8	Community ID		See codebook
A.9	GPS Coordinates of main community office or community center	a. Latitude ° . ' s	b. Longitude ° . ' e

B. COMMUNITY LEADERS

Make a complete list of all individuals who are part of the group of informants for the community questionnaire.

B.1	B.2	B.3	B.4	B.5	B.6	B.7
ID CODE	Name	Sex	Age	What position do you currently have in this community? Allow up to 2 responses	For how many years have you lived in this community?	What is the highest educational qualification you have attained?
		Male.....1 Female.....2	Years	Chief / Chairperson.....1 Representative.....2 Village committee.....3 Elderly.....4 School headmaster.....5 School teacher.....6 Agriculture extension officer.....7 Health worker.....8 Businessperson.....9 Religious leader.....10 Police.....11 Other, specify.....555	Years	No school.....1 Some primary.....2 Completed primary.....3 Completed secondary.....4 Post-secondary.....5 Other, specify.....555
1						
2						
3						
4						
5						

C. BACKGROUND

C.1	How many households are currently living in the entire community?		Number of households
How many [...] live in this community?			
C.2	National politicians		Number of people
C.3	District politicians		Number of people
C.4	Wealthy businessperson		Number of people
C.5	National religious figure		Number of people
C.6	Top military/security official		Number of people
C.7	Highly ranked government official		Number of people
C.8	Highly ranked employee of the national utility company		Number of people
C.9	How many households have come to settle in the community during the past two years (since 2014)?		Number of households
C.10	How many households have moved out of the community during the past two years (since 2014)?		Number of households
C.11	What are the main source of income for most households in the community?	a. <input type="checkbox"/> <input type="checkbox"/> b. <input type="checkbox"/> <input type="checkbox"/> c. <input type="checkbox"/> <input type="checkbox"/>	Crop cultivation.....1 Livestock.....2 Fishing/Hunting.....3 Trading.....4 Services.....5 Small-scale industry (non-farm).....6 Large-scale commercial industry (non-farm).....7 Transport.....8 Professional occupations.....9 Civil service.....10 Other, specify.....555
C.12	What is the price per hectare of agricultural land in the community?		Local currency Land not for sale.....111 Not applicable.....777
C.13	What percentage of households in the community are landless?		Percentage of households

D. TRANSPORTATION, COMMUNICATION, AND WATER SUPPLY

D.1	Is the village accessible by motor vehicle (car or truck)? <i>Ask for dry season and rainy season separately if seasonality in country.</i>	a. Dry season <input type="checkbox"/> b. Rainy season <input type="checkbox"/>	Yes, by paved road.....1 Yes, by unpaved/gravel/dirt road.....2 No.....3
D.2	What is the distance in kilometers from the village to the district center?		Kilometers
D.3	Can a mobile phone get a working signal in the community? <i>Read aloud options</i>		Yes, everywhere in the community.....1 Yes, most parts of the community.....2 Yes, half of the community.....3 Yes, only a few parts of the community.....4 No, nowhere in the community.....5
D.4	What is the main source of water supply for most households in the community?		Pipe borne water treated.....1 Pipe borne water untreated.....2 Bore hole/ hand pump.....3 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

E. INFRASTRUCTURE AND SERVICES

E.1	E.2	E.3	E.4	E.5	E.6	E.7
ID	Infrastructure/Service Name	How many of [INFRASTRUCTURE/SERVICE] is available in the community? <i>If greater than 0 →E.5</i>	How far away is the nearest [INF/SERVICE] from the community? (kilometers) →NEXT ROW	In what year did this service first begin operating in this community?	Do these facilities have access to electricity? Yes, all.....1 Yes, some..2 No.....3	Main Source of electricity Grid.....1 Mini-grid2 Solar PV.....3 Generator.....4 Other (specify)..5
1	Pre-primary school / Kindergarten					
2	Primary school					

3	Secondary school/high school					
4	TVET (technical vocational training institution)					
5	Bus stop					
6	Private clinic					
7	Government clinic/Public Health Center					
8	Dispensary or pharmacy					
9	Hospital					
10	Market					
11	Milk collection center					
12	Bank branch					
13	Microfinance Institutions (MFIs)					
14	Police station					
15	Post office					
16	Internet café					
17	Non-MFI NGOs					
18	Agriculture extension office					
19	Grain/saw/oil mill					
20	Mobile phone charging/repairing service					
21	Restaurant/tea or coffee shop					
22	Temple/Monastery/Church/Mosque					
23	National Electricity Utility Office					

F. SHOCKS AND NATURAL DISASTERS IN LAST 12 MONTHS

F.1	F.2	F.3
ID	Disaster/Shock Type	Did [DISASTER/SHOCK] take place in the community in the last 12 months? Yes.....1 No.....2
1	Drought/irregular rains, prolonged dry spell	
2	Floods	
3	Landslides and mudslides	
4	Unusually high level of crop pests and diseases	
5	Unusually high level of livestock diseases	
6	Unusually high level of human disease/epidemic	
7	Unusually high prices of food	
8	Unusually high cost of agriculture inputs (seed, fertilizer, etc.)	
9	Other (specify)	

G. ENERGY/FUEL PRICE IN THE COMMUNITY

G.1	G.2	G.3	G.4	G.5	G.6	G.7
ID	Energy Source/Fuel	Unit	Current Market Price/Unit (local currency)	Is this the price of [FUEL] for the entire year? Yes.....1 → Next row No.....2	What is the lowest market price of [FUEL] in a typical year? (local currency)	What is the highest market price of [FUEL] in a typical year? (local currency)
1	LPG/cooking gas	kg				
2	Electricity	kWh				
3	Wood/Twigs	kg				
4	Charcoal	kg				
5	Kerosene	liter				
6	Diesel	liter				
7	Coal/Lignite	kg				
8	Ethanol	liter				
9	Animal waste/dung	kg				
10	Briquette/pellet	kg				

H. SUPPLY OF ELECTRICITY

H.1	What are all the different sources of electricity that are available in this community? Record all that apply.	a. <input type="checkbox"/> <input type="checkbox"/> b. <input type="checkbox"/> <input type="checkbox"/> c. <input type="checkbox"/> <input type="checkbox"/> d. <input type="checkbox"/> <input type="checkbox"/>	National Grid Connection.....1 Local Mini Grid.....2 Diesel/Gasoline Generator.....3 Solar Home System.....4 Solar Lantern/Lighting System.....5 Rechargeable Battery.....6 Dry cell batteries.....7 Other, specify.....555 No Electric Power.....111
Electricity from Grid/mini-grid			
H.2	Interviewer: Is the community connected to the national grid or mini-grid?		Yes, national grid.....1 → H.7 Yes, mini-grid.....2 → H.5 No.....3
H.3	What is the MAIN reason why the community is not connected to the grid? Record the MAIN reason.		Grid is not available.....1 Households do not want to connect to the grid.....2 Utility would not connect community.....3 Service Unreliable.....4 Administrative procedure is too complicated.....5 Submitted application and waiting for connection.....6 Other, specify.....555
H.4	Does the community expect to get grid connection in the next 2 years?		Yes.....1 No.....2 ALL →H.25
H.5	Who is running the mini-grid system(s) in this community? Multiple responses possible	a. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> b. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> c. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> d. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Individual.....1 Private firm.....2 National government.....3 Municipal/local government.....4 NGO/Donor.....5 Community/cooperative.....6 Other, specify.....555
H.6	What is the name of the local mini grid company?		
H.7	How many years has the community had this grid/mini-grid connection? Record in years, if less than 1 year record 1		Number of Years
H.8	How much did the community pay (if any) to get the grid/mini-grid connection? Refer to any community cost to have the infrastructure installed.		Local currency Don't know.....888
H.9	Is grid/mini-grid service available to the whole community or only a part of the community? Read aloud options		Entire Community.....1 Most of the community.....2 Half of the community.....3 Small part of the community.....4
H.10	How many households are connected to the grid/mini-grid?		Number of households
H.11	How many businesses are connected to the grid/mini-grid?		Number of businesses
H.12	Are there certain months/seasons every year when the community experiences bad electricity service from the grid/mini-grid?		Yes.....1 No.....2 → H.15
H.13	What are the worst months for service from the grid/mini-grid? Multiple responses are possible. Record all months when community has the lowest number of hours of electricity supply.	a. <input type="checkbox"/> <input type="checkbox"/> b. <input type="checkbox"/> <input type="checkbox"/> c. <input type="checkbox"/> <input type="checkbox"/> d. <input type="checkbox"/> <input type="checkbox"/> e. <input type="checkbox"/> <input type="checkbox"/> f. <input type="checkbox"/> <input type="checkbox"/> g. <input type="checkbox"/> <input type="checkbox"/> h. <input type="checkbox"/> <input type="checkbox"/> i. <input type="checkbox"/> <input type="checkbox"/> j. <input type="checkbox"/> <input type="checkbox"/> k. <input type="checkbox"/> <input type="checkbox"/>	January.....1 February.....2 March.....3 April.....4 May.....5 June.....6 July.....7 August.....8 September.....9 October.....10 November.....11 December.....12

Ask respondent first about the worst months and then about a typical month for H.14- Error! Reference source not found. If no seasonal changes, ask only about a typical month. Ask questions by ROW.		A. WORST MONTHS	B. TYPICAL MONTH	
H.14	Does the community publish a “load-shedding” schedule (announces hours of electricity available from the grid/mini-grid)?			Yes.....1 No.....2
H.15	How many hours of electricity are available each day from the grid/mini-grid? (max 24 hours)	<input type="text"/> hours	<input type="text"/> hours	Hours of supply Don't know.....888
H.16	How many hours of electricity are available each evening, from 6:00 pm to 10:00 pm from the grid/mini-grid? (max 4 hours)	<input type="text"/> hours	<input type="text"/> hours	Hours of supply Don't know.....888
H.17	Enumerator/CAPI Check: Are the hours of supply in H.15 more than 16 hours AND are the hours of supply in H.16 equal to 4 hours?			Yes.....1 No.....2
H.18	In the last 12 months, did the power go out for more than 24 hours?			Yes.....1 No.....2→H.20
H.19	How many days did it take to fix the issue?			Number of days
H.20	What are the most serious problems this community experiences with the grid electricity? Record up to 2 responses.	a. First <input type="text"/> b. Second <input type="text"/>		Supply shortage/not enough hours of electricity.....1 Low/high voltage problems or voltage fluctuations.....2 Unpredictable interruptions.....3 Too expensive.....4 Do not trust the supplier.....5 Cannot power large appliances.....6 Maintenance/service problems.....7 Other, specify.....555 No problems.....111
H.21	Over the past 3 years, how has getting access to an electricity connection in your community changed? Read aloud options			Much easier.....1 A little easier.....2 About the same.....3 A little harder.....4 Gotten much harder.....5
H.22	Over the past 3 years, how has the reliability of residential electricity in your community changed? Read aloud options			More reliable, improved.....1 About the same.....2 Less reliable (worsened).....3
H.23	Over the past 3 years, how has the price of using grid electricity in your community changed? Read aloud options			Higher.....1 About the same.....2 Lower.....3
H.24	How satisfied are you with the service from the grid electricity? Read aloud options			Very satisfied.....1 Somewhat satisfied.....2 Neutral.....3 Unsatisfied.....4 Very unsatisfied.....5
Solar Home Systems/Solar Lighting Systems				
H.25	Interviewer/CAPI check: Are solar home systems/solar lighting systems used/owned in the community?			Yes.....1 No.....2→0
H.26	What percentage of households use solar home systems/solar lighting systems in this community?			Percentage
H.27	From where do most households in this community purchase solar home systems? Multiple responses possible			Purchase from local shops within the community.....1 Purchase from shops outside the community.....2 Purchase/lease from private companies.....3 Purchase/lease from NGOs.....4 Free.....5 Other, specify.....555

I.1	What is the most common type of cookstove people use in this community?		Stone/fire stove.....1 Other self-built stove.....2 Manufactured stove.....3
I.2	What is the most common cookstove fuel people use in this community?		Kerosene.....1 Coal/lignite.....2 Charcoal.....3 Wood.....4 Solar.....5 Animal Waste/Dung.....6 Crop Residue/Plant Biomass.....7 Saw Dust.....8 Coal Briquette.....9 Biomass Briquette.....10 Processed biomass (pellets)/ woodchips.....11 Ethanol.....12 Biogas.....13 LPG/cooking gas.....14 Piped Natural Gas.....15 Electric.....16 Garbage/plastic.....17 Other, specify.....555
I.3	Do most households purchase or collect wood fuel?		Purchase.....1 Collect.....2 Other, specify.....555 Don't know.....888
I.4	Do households use improved cookstoves in this community?		Yes.....1 No.....2→I.6
I.5	What kind of improved cookstoves do they use? <i>Select Multiple if applicable</i>		<i>See codes in codebook</i>
I.6	Do households use LPG/cooking gas cookstoves in this community?		Yes.....1 No.....2
I.7	Do households use electric cookstoves in this community?		Yes.....1 No.....2
I.8	Are there programs that distribute improved cookstoves in this community (have an outlet in the community)?		Yes.....1 No.....2→I.10
I.9	Who organizes these distribution programs?		Government.....1 NGO.....2 International Donor.....3 Private sector.....4 Other, specify.....555
I.10	Are there programs that campaign for awareness on the health risks of cookstoves?		Yes.....1 No.....2→J
I.11	Who organizes these awareness programs?		Government.....1 NGO.....2 International Donor.....3 Private sector.....4 CBO.....5 School.....6 Health clinic/facility.....7 Other, specify.....555

I. COOKING

J.1	Does your community have any form of street lighting?		Yes.....1 No.....2→ END
J.2	What is the main energy source being used for street lighting in your community?		National grid connection from (COMPANY).....1 Local mini-grid.....2 Solar Stand-Alone System.....3 Other, Specify.....555 Don't know.....888
J.3	To what extent is your community covered by street lighting? <i>Read aloud options</i>		Hardly/None.....1 Minor Part.....2 Partially.....3 Largely.....4 Entirely.....5
J.4	Who pays for the street lighting?		Local government.....1 Community.....2 No payment necessary.....3 Other, specify.....555
J.5	Who is responsible for maintaining the street lights		Local government.....1 Community.....2 Utility.....3 Company that installed the street lights.....4 Other, specify.....555 Nobody.....111
J.6	In a typical night, for how many hours are the street lights on in your community from sunset to sunrise each day?		HOURS
J.7	In the last 7 days, have there been significant unscheduled outages/blackouts of street lighting in your community?		Yes.....1 No.....2
J.8	How satisfied are you by the brightness of the street lighting service in your community? <i>Read aloud options</i>		Very unsatisfied.....1 Somewhat unsatisfied.....2 Somewhat satisfied.....3 Very satisfied.....4
J.9	What do you think are the risks/problems with street lighting in your community? <i>Multiple responses possible</i>	a. _ _ _ _ b. _ _ _ _ c. _ _ _ _ d. _ _ _ _	Electrocution.....1 Poor installation.....2 Poor maintenance.....3 Outages/blackouts of street lighting.....4 Does not stay on all night.....5 No risks/problems.....111
J.10	What are the main problems in your community when street lighting is not working?		[Open ended response]

J. STREET LIGHTING

