



Energy Survey
Community Questionnaire for Impact Evaluation and Tier Analysis
Version 7 English

A. COMMUNITY IDENTIFICATION

A.1	Province Name		See codebook
A.2	Province Code		See codebook
A.3	District Name		See codebook
A.4	District Code		See codebook
A.5	Sector Name		See codebook
A.6	Sector Code		See codebook
A.7	Cell Code		See codebook
A.8	Cell Name		See codebook
A.9	Village/Town Name		See codebook
A.10	Village/Town Code		See codebook
A.11	Locality		Urban.....1 Rural.....2 Peri-urban.....3
A.12	Interview Language		
A.13	Community ID		See codebook
A.14	GPS Coordinates of Main Community Office	a. Latitude ° . 's	b. Longitude ° . 'e
A.15	GPS Coordinate of Transformer 1 <i>Only for functional transformers</i>	a. Latitude ° . 's	b. Longitude ° . 'e
A.16	GPS Coordinate of Transformer 2 <i>Only for functional transformers</i>	a. Latitude ° . 's	b. Longitude ° . 'e
A.17	GPS Coordinate of Transformer 3 <i>Only for functional transformers</i>	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 Male.....1 Female.....2	Age Years	What position do you currently have in this community? Allow up to 2 responses 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	For how many years have you lived in this community? Years	What is the highest educational qualification you have attained? 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	What is the size of the entire community population?		Number of people
C.2	How many households are currently living in the entire community?		Number of households
How many [...] live in this community?			
C.3	National politicians		Number of people
C.4	District politicians		Number of people
C.5	Wealthy businessperson		Number of people
C.6	National religious figure		Number of people
C.7	Top military/security official		Number of people
C.8	Highly ranked government official		Number of people
C.9	Highly ranked employee of the national utility company		Number of people
C.10	How many households have come to settle in the community during the past two years (since 2014)?		Number of households
C.11	How many households have moved out of the community during the past two years (since 2014)?		Number of households
C.12	What is the main source of income for most households in the community?		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.13	What is the price per square meter of residential land in the community?		Local currency Land not for sale.....111
C.14	What is the price per hectare of agricultural land in the community?		Local currency Land not for sale.....111
C.15	How many landless households in the community?		Number of households
C.16	Do people in this community in general have high level of debt?		Yes.....1 No.....2
C.17	What are the sources of loans in this community? <i>Multiple responses possible</i>	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"/>	Commercial/government bank.....1 Rural bank.....2 Cooperative/ credit union.....3 Microfinance institution.....4 State loan.....5 NGO.....6 Business firm.....7 Employer.....8 Moneylender.....9 Shop.....10 Relative/friend/neighbor.....11 Other, specify.....555 Don't know.....888

D. TRANSPORTATION, COMMUNICATION, AND WATER SUPPLY

D.1	Is the village accessible from the nearest city 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.....1 No.....2
D.2	Is the road paved, unpaved, or there are both types?	a. Dry season <input type="checkbox"/> b. Rainy season <input type="checkbox"/>	Paved road.....1 Unpaved road.....2 Both paved and unpaved...3
D.3	What is the distance in kilometers from the village to the nearest city?		Kilometers
D.4	What is the distance in kilometers from the village to the district headquarter?		Kilometers

D.5	Can a mobile phone get a working signal everywhere in the community, in parts of the community, or nowhere in the community? <i>Read aloud options</i>		Everywhere in the community.....1 Most parts of the community.....2 Half of the community.....3 A few parts of the community.....4 Nowhere in the community.....5→D.7
D.6	How often can a mobile phone get a working signal in the community? <i>Read aloud options</i>		All the time.....1 Most of the time.....2 Half of the time.....3 Less than half of the time.....4 Rarely.....5
D.7	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 Irrigation channels.....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 <i>Multiple responses</i> Grid.....1 Individual Solar PV....2 Own Generator....3
1	Pre-primary school / Kindergarten					
2	Primary school					
3	Secondary school/high school					
4	TVET (technical vocational training)					
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					
19	Agriculture extension office					
20	Grain/saw/oil mill					
21	Mobile phone charging/repairing service					
22	Restaurant/tea or coffee shop					
23	Temple/Monastery/Church/Mosque					
24	National Electricity Utility Office					

F. COMMUNITY BASED ORGANIZATIONS (CBO)

F.1	F.2	F.3	F.4
ID	CBO Type	Is [CBO TYPE] available in the community? Yes.....1 No.....2→ NEXT ROW	Do women participate in [CBO TYPE]? Yes.....1 No.....2
1	Administration		
2	Electrification		
3	Water		
4	Health Care		
5	Women		
6	Farmer		

7	Religion-based		
8	Fisherfolk		
9	Cooperative		
10	Savings groups		
11	Parent-Teacher groups		
12	Self-help groups		
13	Livelihood Development		
14	Political		
15	Cultural		

G. NON-GOVERNMENTAL ORGANIZATIONS (NGO)

G.1	G.2	G.3	G.4	G.5
ID	NGO Program	Is [NGO Program] available in the community? Yes.....1 No.....2→ NEXT ROW	Do women participate in [NGO PROGRAM]? Yes.....1 No.....2	In what year did this NGO Program first begin operating in this community?
1	Nutrition			
2	Technical training			
3	Child education			
4	Adolescent education			
5	Health and Family planning			
6	Agriculture-related			
7	Microfinance services (credit & savings)			
8	Micro insurance			
9	Other, specify			
10	Other, specify			
11	Other, specify			

H. COMMUNITY BUSINESSES

H.1	H.2	H.3	H.4	H.5	H.6
ID	Business Name	How many of [BUSINESS] is available in the community? <i>If 0 →Next row</i>	In what year did this business 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 Multiple responses Grid.....1 Individual Solar PV....2 Own Generator....3
MANUFACTURING—MAKING GOODS					
1	Tailor/Shoe Manufacturer/Repair				
2	Baker/baked goods				
3	Coffee, tea, sugar, oil, dry fruits and other processed foods (exclude restaurants, street-food sellers)				
4	Handcrafts				
5	Furniture				
6	Metal Products				
7	Household Items				
8	Tools and Instruments				
9	Other Manufacturing				
SERVICES—SELLING GOODS					
10	Food or Groceries (street food sellers, restaurants)				
11	Clothing or household items				
12	Business/computer/phone services				
13	Other goods				
14	Transport				
15	Cleaning and washing				
16	Hairdressers and barber shops				
17	Professional Services (doctor, lawyer, accountant, etc.)				
18	Solar Home Systems/Solar Lighting Systems				
19	Repairing				

20	Construction				
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I. DEVELOPMENT PROJECTS

I.1	I.2	I.3	I.4
ID	Development Project Name	Was this [PROJECT] implemented in the community in the last 2 years? Yes.....1 No.....2	Is there any plan to implement [PROJECT] in the community in the next 2 years? Yes.....1 No.....2
1	Roads: Construction, maintenance or rehabilitation		
2	Markets: Construction, maintenance or rehabilitation		
3	Public water supply: Installing/replacing pump, public tap, etc.		
4	Primary school: Construction, maintenance or rehabilitation		
5	Secondary school: Construction, maintenance or rehabilitation		
6	Health center/dispensary: Construction, maintenance or rehabilitation		
7	Power lines: Construction, maintenance or rehabilitation		
8	ICT program-broadband/wi-fi Construction, maintenance or rehabilitation		
9	Crop intensification program		
10	Mini-grid program		
11	Off-grid distribution program		
12	Improved cookstove distribution program		
13	Other development program (specify)		

J. SHOCKS AND NATURAL DISASTERS IN LAST 12 MONTHS

J.1	J.2	J.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)	

K. ENERGY/FUEL PRICE IN THE COMMUNITY

K.1	K.2	K.3	K.4	K.5	K.6	K.7
ID	Energy Source/Fuel	Unit	Current Market Price/Unit (local currency)	Is this the price of [FUEL] for the entire year? Yes.....1 → No.....2 Next row	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					
2	Electricity					
3	Wood/Twigs					
4	Charcoal					
5	Peat					
6	Kerosene					
7	Coal/Lignite					
8	Ethanol/Biogas					
9	Animal waste/dung					
10	Briquette/pellet					

L. SUPPLY OF ELECTRICITY

L.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			
L.2	Interviewer/CAPI check: Is the community connected to the national grid or mini-grid?		Yes, national grid.....1 →L.7 Yes, mini-grid.....2 →L.5 No.....3
L.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
L.4	Does the community expect to get grid connection in the next 2 years?		Yes.....1 No.....2 ALL →L.28
L.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
L.6	What is the name of the local mini grid company?		
L.7	How many years has the community had this grid connection? Record in years, if less than 1 year record 1		Number of Years
L.8	How much did the community pay to get the grid connection? Refer to any community cost to have the infrastructure installed.		Local currency Don't know.....888
L.9	Is 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
L.10	How many households are connected to the grid?		Number of households
L.11	How many businesses are connected to the grid?		Number of businesses
L.12	Are there certain months/seasons every year when the community experiences bad electricity service from the grid?		Yes.....1 No.....2 →L.15
L.13	What are the worst months for service from the 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 L.14-L.19 If no seasonal changes, ask only about a typical month. Ask questions by ROW.		A. WORST MONTHS	B. TYPICAL MONTH
L.14	Does the community publish a “load-shedding” schedule (announces hours of electricity available from the grid)?		Yes.....1 No.....2

L.15	How many hours of electricity are available each day from the grid? (max 24 hours)	<input type="text"/> hours	<input type="text"/> hours	Hours of supply Don't know.....888
L.16	How many hours of electricity are available each evening, from 6:00 pm to 10:00 pm from the grid? (max 4 hours)	<input type="text"/> hours	<input type="text"/> hours	Hours of supply Don't know.....888
L.17	In a typical day, how many outages/blackouts of the grid happen?	<input type="text"/>	<input type="text"/>	Number of interruptions Don't know.....888
L.18	In a typical day, what is the total duration of outages/blackouts?	a. Hours _ _ _ b. Minutes _ _ _	a. Hours _ _ _ b. Minutes _ _ _	Don't know.....888
L.19	In a typical day and night (24 hours), how many hours is electricity not available?			Number of hours
L.20	In the last 12 months, did the power go out for more than 24 hours?		Yes.....1 No.....2→L.23	
L.21	In what month and year did the power go out for more than 24 hours in multiple households at the same time in the community?	a. MM _ _ b. YYYY _ _ _ _	MM/YYYY	
L.22	How many days did it take to fix the issue and for the community to regain power?			Number of days
L.23	What are the most serious problems this community experiences with the grid electricity? Record up to 2 responses.	a. First _ _ _ b. 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 Other, specify.....555 No problems.....111	
L.24	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	
L.25	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	
L.26	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	
L.27	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				
L.28	Interviewer/CAPI check: Are solar home systems/solar lighting systems available in the community?		Yes.....1 No.....2→M	
L.29	What proportion of households use solar home systems/solar lighting systems in this community?		All households.....1 Most/more than half of the households.....2 Half of the households.....3 Some/less than half of the households.....4	

			Only a small number of households.....5 Don't know.....888
L.30	What are sources of solar home systems/solar lighting systems in this community? <i>Multiple responses possible</i>		Purchase from shops.....1 Purchase/lease from private companies.....2 Purchase/lease from NGOs.....3 Free.....4 Other, specify.....555

M. COOKING

M.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
M.2	What is the most common cookstove fuel people use in this community?		Kerosene.....1 Coal/lignite.....2 Peat.....3 Charcoal.....4 Wood.....5 Solar.....6 Animal Waste/Dung.....7 Crop Residue/Plant Biomass.....8 Saw Dust.....9 Coal Briquette.....10 Biomass Briquette.....11 Processed biomass (pellets)/ woodchips.....12 Ethanol.....13 Biogas.....14 LPG/cooking gas.....15 Piped Natural Gas.....16 Electric.....17 Garbage/plastic.....18 Other, specify.....555
M.3	What is the most common solid fuel used for cookstoves?		Coal/lignite.....1 Peat.....2 Charcoal.....3 Wood.....4 Animal Waste/Dung.....5 Crop Residue/Plant Biomass.....6 Saw Dust.....7 Coal Briquette.....8 Biomass Briquette.....9 Processed biomass (pellets)/ woodchips.....10 Other, specify.....555
M.4	Do most households purchase or collect wood fuel?		Purchase.....1 Collect.....2 Other, specify.....555 Don't know.....888
M.5	Do households use improved cookstoves in this community?		Yes.....1 No.....2→M.7
M.6	What kind of improved cookstoves do they use?		
M.7	Do households use LPG/cooking gas cookstoves in this community?		Yes.....1 No.....2
M.8	Do households use electric cookstoves in this community?		Yes.....1 No.....2
M.9	Are there programs that distribute improved cookstoves in this community?		Yes.....1 No.....2→M.11
M.10	Who organizes these distribution programs?		Government.....1 NGO.....2 International Donor.....3 Private sector.....4 Other, specify.....555
M.11	Are there programs that campaign for awareness on the health risks of cookstoves?		Yes.....1 No.....2→N
M.12	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

N. STREET LIGHTING

N.1	Does your community have any form of street lighting?		Yes.....1 No.....2→0
N.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
N.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
N.4	Who pays for the street lighting?		Local government.....1 Community.....2 No payment necessary.....3 Other, specify.....555
N.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
N.6	In a typical day, for how many hours are the street lights on in your community from sunset to sunrise each day?		HOURS
N.7	In the last 7 days, have there been significant unscheduled outages/blackouts of street lighting in your community?		Yes.....1 No.....2
N.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
N.9	What do you think are the risks/problems with street lighting in your community? <i>Multiple responses possible</i>	a. <input type="checkbox"/> b. <input type="checkbox"/> c. <input type="checkbox"/> d. <input type="checkbox"/>	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
N.10	What are the main problems in your community when street lighting is not working?		[Open ended response]

O. ATTITUDES

#	Statement <i>Read the following statement and ask respondent whether he or she strong agrees, agrees, disagrees, strongly disagrees, or has no opinion.</i>	Response CODE: Strongly Agrees.....1 Agrees.....2 No Opinion.....3 Disagrees.....4 Strongly Disagrees.....5
Electricity		
D.1	Electricity is very important for children's education.	
D.2	Electricity is very important for public facilities (hospitals/clinics and community centers).	
D.3	Electricity can benefit communities through economic and enterprise development.	
D.4	Electricity is too expensive for the community.	
Cooking		
D.5	Firewood is hard to obtain in the local market.	
D.6	Charcoal is hard to obtain in the local market.	
D.7	LPG/cooking gas is hard to obtain in the local market.	
D.8	Improved biomass cookstove is hard to find in the local market.	
D.9	LPG/biogas stove is hard to find in the local market.	
D.10	Electric stove is hard to find in the local market.	
D.11	Collecting wood fuel is difficult in this community.	
Street Lighting		
D.12	Street lighting allows for more community activities to occur at night.	
D.13	Street lighting lets night markets and other businesses stay open longer.	
D.14	Street lighting makes it safer for people to stay out at night.	
D.15	Street lighting reduces crime in the community.	
D.16	Street lighting works well in the community.	