

QUESTIONNAIRE FOR EDUCATION FACILITIES

Energy Survey

Education Facility Questionnaire for Impact Evaluation and Tier Analysis

A. COMMUNITY IDENTIFICATION

A.1	Province Name	Name	See codebook
A.2	District Name	Name	See codebook
A.3	Sector Name	Name	See codebook
A.4	Cell Name	Name	See codebook
A.5	Village Name	Name	
A.6	Locality: Urban/Rural		Urban.....1 Rural.....2
A.7	Interview Language	Kinyarwanda = 1 English = 2	
A.8	Community ID		See codebook
A.9	GPS Coordinates of education facility	a. Latitude ° . 's	b. Longitude ° . 'e

* THE RESPONDENT SHOULD BE THE PERSON TASKED WITH PAYING THE BILLS OR THE ADMINISTRATOR.

**THE EDUCATION FACILITY SELECTED SHOULD BE WITHIN 5KM OF THE COMMUNITY CENTER

B. COMMUNITY EDUCATION FACILITY

Provide information on the informant for the Education Facility questionnaire.

	B.1	B.2	B.3	B.4	B.5	B.6	B.7	B.8	B.9	B.10	B.11		
EDUCATION FACILITY CODE	CAPI: Record the start time of interview		CAPI: Record day and month of interview		Name of respondent	Sex	What is the highest educational qualification you have acquired?	How many years of [B.5] has [NAME] completed?	What position do you currently hold in this facility?	Number of years in this position	What is the contact phone number for the facility?	What is the name of this facility?	What is the type or level of this facility?
	a. Hour	b. Min	a. Month	b. Day		Code Male.....1 Female.....2	Code None.....1 Primary.....2 Secondary JS.....3 Secondary MSC...4 Vocational/ Technical School.....5 University.....6 Masters.....7 Post-Graduate.....8		Code School headmaster.....1 School teacher.....2 Facility supervisor.....3 Facility administrator.....4 Other, specify.....555	Years	IF NO PHONE NUMBER, ENTER "99"	Name of facility	Code Primary.....1 Secondary.....2 Vocational/Technical School.....3 University.....4 Graduate School.....5 Post-Grad.....6 Other (Specify)....555

	B.12	B.13	B.13-A	B.14		B.15		B.16	B.17
EDUCATION FACILITY CODE	How many people are employed at this facility?	How many students attend this facility per day on average when the facility is open?	How many months does this facility operate for the last 12 months?	What time does this facility usually open and close? <i>Enumerator: Use a 24hour clock</i>		Does this facility have electricity from any source, including a grid connection, generator, solar power, mini-grid, or rechargeable batteries?		What is the primary (most commonly used) lighting source for the facility? CODE No source of lighting.....1→C1 Solar Device.....2→B.32 Fuel-based lighting.....3→ C1 Kerosene lamps.....4→ C1 Candles.....5→ C1 Dry cell battery-powered torch/flashlight/lamp.....6→ C1 National grid.....7 → C1 Minigrid.....8 → C1 Rechargeable battery.....9 → C1 Generator.....10 → C1 Other, specify.....555→0	
	Number of employees (including teaching and non-teaching employees & full-time and part-time staff)	Number of students	Months	First shift schedule	Second shift schedule (if applicable)	Yes.....1 →B.18 No.....0			
				Opening time:	Closing time:	Opening time:	Closing time:		

	ALL					GRID/MINI-GRID/GEN
	B.18	B.19	B.20	B.21	B.22	B.23
EDUCATION FACILITY CODE	What is the primary source of electricity in the facility?	In the last year, during the hours the facility is open, how many hours is the electricity available each day on average (out of 24 hours)?	In the last year, has the facility experienced situations in which appliances could not be used or were damaged because of <u>low voltage or voltage fluctuations</u> from the primary source?	How severely do the issues of low or fluctuating voltage disrupt service delivery? <i>Read aloud options</i>	<i>CAPI:</i> Is the response to question B.18 “National grid” (Code 1) or “Local mini-grid” (Code 2) or “Generator” (Code 3)?	How many <u>unscheduled interruptions</u> of electricity did you experience in a typical week? <i>(Enumerator – Timeframe is within the last year)</i>
	CODE National grid (Utility Company)....1 Local mini-grid.....2 Generator.....3 Solar home system.....4 Solar lighting system.....5 Solar lantern6 Rechargeable battery system.....7 Other, specify.....555	Hours	Yes.....1 No.....0→B.22	Code Little or None.....1 Moderate.....2 Severely.....3 Don't know.....888	Yes.....1 No.....0→ B.26	Number of interruptions per week If “0” →0 A

		GRID/MINI-GRID/GEN		GRID/MINI-GRID/GEN			INTERVIEWER: REMEMBER TO PROMPT FOR BILL (IF ANY)			
B.24		B.25	B.26	B.27 A	B.27 B	B.28	B.29	B.30	B.31	
EDUCATION FACILITY CODE	What was the average duration of each individual <u>unscheduled interruption</u> ?		How severely do the issues of <u>unscheduled interruption</u> disrupt service delivery? <i>Read aloud options</i>	<i>CAPI/Interviewer:</i> Is the response to B.18 "Solar options Codes 4, 5, 6)?"	In the last year, who regularly paid for the electricity from [Primary Source] in the facility?	What is the facility's monthly electricity budget?	Who gets paid for the electricity from [Primary Source] ?	In the last year, how much did the facility spend on the [Primary Source] electricity (including fuel) per month on average when the facility is in operation?	What is the current unit cost the facility pays for electricity?	<i>CAPI/Interviewer :</i> Did the respondent use a recent electricity bill to assist in answering B29 and B30 ?
	a. Hours	b. Mins	Code Little or none...1 Moderately...2 Severely...3 Don't know...888	Code Yes.....1 → B.32 No.....0	Code Facility.....1 Central government.....2 Community/village/ municipality.....3 No payment is needed...4 Other, specify.....555	Local currency Don't know.....888	Code Local representative /official of energy company.....1 Pre-paid meter card seller.....2 Community/village/ municipality.....3 Relative.....4 Neighbor.....5 Landlord.....6 Shopkeeper for fuel purchase to power generator.....7 No need to pay (paid for equipment only).....8 → B.32 Other, specify.....555	Local currency Don't know.....888	Cost (Local currency) Don't know...888	Unit Code kWh...1 Liter...2 Battery recharge (per battery).....3

		SOLAR													
		B.32	B.33	B.34	B.35	B.36	B.37	B.38	B.39	B.40	B.41	B.42	B.43	B.44	B.45
EDUCATION FACILITY CODE		Which solar devices does the facility own?	How many solar lanterns are owned by the facility?	What is your most frequently used device?	When was the device installed or acquired?	Is the device still working?	When did it stop working?	Is the device still working in the same capacity as when it was installed/acquired?	How did you obtain the device?	Who gave you this device, or sponsored you to acquire this device?	Have batteries been changed on this device?	When were the batteries changed?	Who paid for the new batteries?	What was the cost of the batteries?	How much did the facility spend on purchasing the solar device in total? <i>If B 39 = Purchased (code 1)</i>
			<i>Include lanterns of different models/ makes acquired by the facility on different dates</i>	Code Solar Home system.....1 Solar lighting system.....2 Solar lantern.....3→ B.51A Not applicable...4	[month, year]	Code Yes....1→ B.38 No....0	[month, year] All skip→B.39	Code Yes.....1 No.....0	Code Purchased.....1→ B 41 Partially-sponsored.....2 Free.....3	Code Local private organizations (NGO).....1 Private Commercial Seller.....2 Local government3 Central government.....4 Politician.....5 Relative/Friend...6 Other, specify....555	Code Yes...1 No...0→ B.45	[month, year]	Code Facility.....1 Local gov't.....2 National gov't.....3 NGO/Donors...4 Other, specify.....555 Don't know.....888	Local currency	Local currency Don't know.....888
		a. Solar Home systems _ _ → B.34 b. Solar lighting systems _ _ → B.34 c. Solar Lanterns _ _													

SOLAR											
EDUCATION FACILITY CODE	B.46	B.47	B.48	B.49	B.50	B.51 A	B.51 B	B.52	B.53	B.54	B.55
	Who currently maintains the solar device?	Did the company/ organization that installed/ provided the device provide training for maintenance?	Whom do you call when the device is not working properly?	How many times did you call them since the device was installed/ acquired?	Did they fix the problem?	Are there any contracts covering operations and maintenance of the facility's primary electricity system?	How is Operations & Maintenance and spare parts of the facility's primary electricity system paid for?	Are the working hours of the facility limited by the electricity supply available?	In the last year, has the [Primary source] electricity in the facility caused any accidents which resulted in human injury (including minor injury)?	[Enumerator's observation] Can you see the bare wire from the electric pole facility?	What is the highest level of damage caused by the [Primary source] electricity in the last year?
	Code Facility staff.....1 Technician from the company that installed the system.....2 Local government.....3 NGO.....4 Nobody/system does not need maintenance.....6 Other, specify.....555	Code Yes.....1 No.....0	Code Facility staff.....1 Technician from the company that installed the system.....2 Local government.....3 NGO.....4 Nobody.....5 → B.51A Other, specify.....555	Times If 0 then skip to B.51A	Code Yes.....1 No.....0	Code Yes.....1 No.....0	Code Regular budget of the facility.....1 Special budget for maintenance.....2 By local gov't.....3 By national gov't.....4 No funds available/no need.....5 Other, specify.....555	Code Yes.....1 No.....0	Code Yes.....1 No.....0→ B.57	Code Yes.....1 No.....0→ B.57	Code Death or permanent limb damage.....1 Other major injuries.....2 Minor injury.....3

	B.56	B.57	B.58	B.59
EDUCATION FACILITY CODE	Was this injury due to faulty wiring/connection?	Does the facility have a back-up source of electricity to use when the [Primary source] fails?	What is the back-up source of electricity in the facility? [CAPI check for no overlap with primary source B.18]	What is the most important constraint that the facility experiences with the [Primary source] electricity?
	Code Yes.....1 No.....0	Code Yes.....1 No.....0 → B.59	Code National grid.....1 Local mini-grid.....2 Generator.....3 Solar home system.....4 Solar lighting system5 Solar lantern.....6 Rechargeable battery system....7 No back-up source111 Other, specify.....555	Duration of supply (hours per day).....1 Low voltage problems or voltage fluctuations...2 Unpredictable interruptions.....3 Unpredictable bills.....4 High cost of electricity.....5 Cannot power large appliances.....6 No constraints.....7 Other, specify.....555

Item Number	Item	a. In the last year, Does the facility own any...in working condition? Code Yes.....1 No.....0→Next item	b. How many of the appliances does the facility use? Number	c. Of the items owned in working condition and not used, which of them would most significantly enhance the quality of the services in the facility? Code Yes.....1 No.....0
B.60	Incandescent Light Bulb			
B.61	Fluorescent Tube			
B.62	Compact Fluorescent Light (CFL) Bulb			
B.63	LED Light Bulb			
B.64	Television			
B.65	Computer			
B.66	Printer			
B.67	Internet modem/router			
B.68	Fans			
B.69	Air Conditioning			
B.70	Electric space heaters			
B.71	Refrigeration			
B.72	Drinking Water Coolers			
B.73	Mobile Phone Charger			
B.74	Electric Water Pump			
B.75	Science Kit (Multimeters etc)			
B.76	Projector			
B.77	Smart Board			
B.78	Audio-Visual System			

	B.79	B.80	B.81
EDUCATION FACILITY CODE	Of the items owned in working condition and NOT USED, which of them would most significantly enhance the quality of the services in the facility?	What is the main reason why the facility does not use this item? (Refer to the item mentioned in B.79)	Is the capacity of the primary source of electricity sufficient to run simultaneously all electrical appliances needed in the facility?
	Code (see codebook) Report the code of the item. If "0" → B 82	Code Electricity is unavailable.....1 Electricity is too expensive.....2 Electricity system does not have adequate capacity.....3 Other, specify.....555	Code Yes.....1 No.....0

C. COOKING SECTION

	C.1	C.2	C.3	C.4	C.5	C.6	C.7	C.8	C.9	C.9A	C.10	C.11
EDUCATION FACILITY CODE	Does the school prepare meals on the premises? Code Yes.....1 No.....2→ END	How many meals are prepared a day? <i>Record the number of times stoves are lit in a day to prepare meals</i>	How many students are being fed at least one meal a day?	What type of school is this? Code Day school.....1 Boarding school.....2 Mix of boarding and day.....3	Is this a private or public school? Code Private.....1 Public.....2	What types of stoves are used for daily meal preparation? <i>List all stoves from the one you use more often to less often</i> Code Open fire/3-stone.....1 Built-in place.....2 Thermal steam stove.....3 Solar thermal storage stove...4 LPG stove.....5 Electric stove.....6 Biogas stove.....7 Other, specify.....555	What year was this [STOVE] purchased? <i>Ask for each stove listed in C.6</i>	How much did the school pay for this [STOVE]? <i>Ask for each stove listed in C.6</i>	How many stoves of the type of [STOVE] does the school use for daily meal preparation?	I this your main stove? 1. Yes 0. No <i>Ask for each stove listed in C6</i> Only one stove is the main stove	How many pots does the school use?	What are the sizes of the pots? 25 liters.....1 50 Liters.....2 70 liters.....3 100 liters.....4 200 liters.....5 >200 liters...6 Other, specify...555 <i>Chose all that apply</i>
							Year	Local currency The school did not pay...888	<i>Ask for each stove listed in C.6</i>			

	C.12	C12A	C12B	C.13	C.14	C.15		C.16	
EDUCATION FACILITY CODE	What fuels are used in the school? Firewood.....1 Charcoal.....2 Crop residue.....3 Dung.....4 LPG.....5 Electricity.....6 Other, specify...555 Multi choices	Of these fuels used, which one is your main fuel? <i>[CAPI] List the fuels selected in C.12, only one answer</i>	Is your [MAIN STOVE] from C9A , a biomass stove? 1. Yes 2. No → C15	What is the primary fuel for [BIOMASS STOVE]? Code Firewood.....1 Charcoal.....2 Crop residue.....3 Other, specify.....555 <i>(Enabling condition if C6=1 or 2 or 3)</i> Enabling condition- Only C12=1,2,3, or 4)	What is the secondary fuel for [BIOMASS STOVE]? Code Firewood.....1 Charcoal.....2 Crop residue.....3 Other, specify.....555 No secondary fuel.....888 CAPI: Impossible to select twice the same fuel <i>(Enabling condition if C6=1 or 2 or 3)</i>	Where does the school acquire the fuel? SKIP C.15B if Only primary fuel		For the last 12 months, how often does the school purchase fuel on average per month? No purchase of fuel...888→ C20 SKIP C.16B if Only primary fuel	
							C.15A	C.15B	C.16A
						Code Vendor.....1 Fuel collection by school students.....2 Fuel collection by school parents or community members.....3 Parents contribution in cash.....4 Parents contribution in kind.....5	Code Vendor.....1 Fuel collection by school students.....2 Fuel collection by school parents or community members.....3 Parents contribution in cash.....4 Parents contribution in kind.....5	PRIMARY FUEL	SECONDARY FUEL

C.17		C.18		C.19	C.20			C.21	C.22	C.23
How much fuel does the school, on average, purchase every time? <i>SKIP C.17B if Only primary fuel</i>		How much does the school spend on a typical month on fuel? <i>SKIP C.18B if Only primary fuel</i> Local currency		Where does the monthly budget for the fuel come from? Student/parent contribution.....1 School budget.....2 Government funding allocation...3 In-kind contribution.....4 Other.....555	How much time does the school cook take to prepare meals? (not including food preparation time)? Minutes			Is there a separate stove for boiling water? Yes1 No.....2	Where are the meals cooked? Kitchen,.....1 Outdoors.....2→C.24 Covered area (open on 4 sides).....3→C.24	How many doors and windows does the kitchen have?
C.17A PRIMARY FUEL	C.17B SECONDARY FUEL	C.18A PRIMARY FUEL	C.18B SECONDARY FUEL		Breakfast Not cooked...888	Lunch Not cooked...888	Dinner Not cooked...888			

C.24		C.25		C.26		C.27		C.28		C.29		C.30		C.31		C.32		C.33	
EDUCATION FACILITY CODE	Does the kitchen have a chimney?	Where is [MAIN FUEL] stored?	Is [MAIN FUEL] available year around?	What are the worst months of obtaining [MAIN FUEL]?	What are the main problems that you face with [MAIN STOVE]?	What are the main problems that you face with [MAIN FUEL]?	[for LPG stoves, biogas stove, electric stove: answers 5,6,7 in C.6]	What do you do when your stove is not working?	What do you do when you can't access the MAIN fuel?	What are key features of the stove that you prefer?	CAPI: Record the end time of interview								
	Yes....1 No.....2	In the cooking area.....1 Outdoors.....2 In a separate room.....3 <i>(Enabling condition – only if biomass is the main fuel source in C13)</i>	Yes1→C.28 No...2	January.....1 February.....2 March.....3 April.....4 May.....5 June.....6 July.....7 August.....8 September...9 October.....10 November...11 December....12	Produces too much smoke and soot.....1 Takes a long time to cook the food.....2 Needs a lot of maintenance and/or repairs.....3 Inconvenient/difficult to use (e.g. stir the food, serve food to the students).....4 Other, specify..... 555 No problem.....888	Price fluctuates.....1 Fuel too expensive to purchase for all cooking needs.....2 Not available throughout the year....3 Fuel (e.g. biomass) has a lot of moisture...4 Other, specify.....555	Call a local technician.....1 Call the distributor company for repair work....2 School staff fixes it.....3 Use a back-up stove.....4 Stove always working.....888	Use a back-up stove with biomass.....1 Use a back-up stove and clean fuel (biogas, LPG, Electricity etc).....2 Other, specify.....555 Fuel always accessible....888	Less smoke.....1 Less soot/cleaner pots.....2 Lower fuel usage.....3 Faster cooking time....4 Ease of preparing the fuel or stove for cooking.....5 Other, specify.....555 <i>Multi-choice</i>										
																			Hour

