



Government of Nepal
Ministry of Energy, Water Resources and Irrigation
Alternative Energy Promotion Center (AEPC)
Mini Grid Energy Access Project (MGEAP)

**Questionnaire for Pre-Feasibility Study (PFS) of
Solar, Wind and Solar Wind Hybrid Mini Grid Subproject**

The following questions are intended to collect site information while conducting PFS of mini grid solar, wind and solar wind hybrid subproject.

Subproject Name:	
Rural Municipality/Municipality:	District:
Ward No/Tole:	Date of Site Visit:

1. General Information:

1.1 Study Team

S.N.	Name	Designation	Contact No.	Signature
1		Team Leader		
2		Team Member		
3		Team Member		

1.2 Local Persons contacted or Interviewed (including Rural Municipality/Municipality/Ward Chairpersons):

S.N.	Name of the Person	Address	Contact Number
1			
2			
3			
4			

1.3 Site Accessibility:

Name of nearest road-head:

Road-head type: Black-coated () Gravel () others ()

Walking distance from nearest road-head to the subproject site:km

If no road access, walking distance from airport to proposed subproject site:km

Name of the nearest airport:

Comments, if any:

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1.4 Demographic Information:

Number of households in the base year:

Base year population:

Percentage of Male and Female:

1.5 NEA National Grid

Name of the nearest NEA grid point:

Distance from proposed subproject site: km

Comments, if any:

1.6 Micro-hydro Power Plants in Area (if exist)

Location	Size (kW)	Distance (km)	Comments

2. Socio-Economic Survey:

2.1 Households and Population of the proposed subproject site:

S.N.	Name of Tole	Number of HH	Population		Remarks
			Male	Female	
1					
2					
3					
4					
5					

2.2 Source of household income:

S.N.	Particular	Share (%)
1	Agricultural production	
2	Service/Jobs except remittance	
3	Income from remittances	
4	Anchor/Business	
5	Others, if any	

2.3 Total no of existing anchors or businesses:

S.N.	Name of Anchor/Business	Source of energy being used
1		
2		
3		
4		
5		

2.4 After installation of mini grid solar, wind and solar wind hybrid system, is there any possibility of entrepreneurship development? If so, please list out the potential anchor or business.

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3. Present Situation and Electricity Demand:

3.1 Present Source of Electricity in the subproject site:

S.N.	Types of Source	No of HH	No of Anchors/ Businesses	No of Institutions (community uses)	Remarks
1	Solar home systems				
2	Small solar home systems				
3	Pico-hydro				
4	Micro-hydro				
5	Kerosene				
6	Diesel Generator set				
7	Others, if any				

3.2 Average Household Power Demand (Please use the list or edit as required):

S.N.	Appliances/Equipments	Quantity (A)	Estimated Watt per Unit (B)	Total Power (Watt) $C = A * B$	Average daily use (Hour/day)
1	LED Lights				
2	Radio				
3	Mobile Charging				
4	Television				
5	DTH Receiver				
6	Fan				
7	Computer/Laptop				
8	Refrigerator				
	Others, if any				
	Total Power (Watt)				

3.3 Existing or Potential Anchor or Business Power Demand (Please use the list or edit as required):

S.N.	Appliances/Equipments	Quantity (A)	Estimated Watt per Unit (B)	Total Power (Watt) $C = A * B$	Average daily use (Hour/day)
1	Telecom Tower				

2	Grill Industry				
3	Saw Mill				
4	Hulling/Milling/ Grinding				
5	Hotels				
6	Computer Institute & Electronic Center				
7	Photocopy Center				
8	Cold Storage				
9	Irrigation/Water Pumping				
10	Private Hospital/Clinics				
11	Banks				
12	Others, if any				
	Total Power (Watt)				

3.4 School Power Demand (Please use the list or edit as required):

S.N.	Appliances/Equipments	Quantity (A)	Estimated Watt per Unit (B)	Total Power (Watt) $C = A * B$	Average daily use (Hour/day)
1	LED Lights				
2	Computers/Laptops				
3	Mobile Charger				
4	Television				
5	Printers				
6	Projectors				
7	Others, if any				
	Total Power (Watt)				

3.5 Health Post Power Demand (Please use the list or edit as required):

S.N.	Appliances/Equipments	Quantity (A)	Estimated Watt per Unit (B)	Total Power (Watt) $C = A * B$	Average daily use (Hour/day)
1	LED Lights				
2	Refrigerator/Vaccine Fridge				
3	Mobile Charger				
4	Nebulizer				
5	Sterilizer Machine				

6	Infant Radiant Warmer				
7	Suction Pump				
8	Others, if any				
	Total Power (Watt)				

3.6 Other Community Power Demand (Please use the list or edit as required):

S.N.	Appliances/Equipments	Quantity (A)	Estimated Watt per Unit (B)	Total Power (Watt) $C = A * B$	Average daily use (Hour/day)
1	Rural Municipality/ Municipality Office				
2	Rural Municipality/ Municipality Ward Office				
3	Street Lights				
4	Communication Center				
5	Others, if any				
	Total Power (Watt)				

3.7 Estimated Cumulative Electricity Demand of the subproject site (Please use the list or edit as required):

S.N.	Electricity Users	Quantity	Total Power Requirement (kW)
1	Households demand		
2	Anchor/Business demand		
3	School demand		
4	Health post demand		
5	Other Community power demand		
6	Others, if any		
	Total Power (kW)		

4. Assessment of Potential Renewable Energy Resources:

4.1 Potential resources for mini grid based power generation in the subproject site

- A) Solar Photovoltaic (PV)
- B) Wind Energy
- C) Solar Wind Hybrid
- D) Micro/Mini Hydro
- E) Others

4.2 Solar Photovoltaic (PV):

S.N.	Particulars	Description	Remarks
1	Average number of sunshine hours/day		
2	Orientation of the land (facing towards) Please tick out of 4 options.	South North East West	
2	Available land area for PV Array (m ²)		
3	Available land area for Power House (m ²)		
4	GPS Coordinates for PV Array and Power House Location		

4.3 Wind Energy:

S.N.	Particulars	Description	Remarks
1	Available land area for Wind Turbine (m ²)		
2	GPS Coordinates for Wind turbine Location		

4.4 Land Details:

S.N.	Particulars	Description	Remarks
1	Type of Land		
2	Ownership of Land		

4.5 Are there any noticeable high wind blowing locations in and around subproject site ?

Yes () Name: _____

No ()

5. Is the proposed subproject site located in following area?

- | | |
|---|--|
| A) Protected area ☐ | B) Community forest ☐ |
| C) Government forest ☐ | D) Religious forest ☐ |
| E) Leasehold forest ☐ | F) Private Forest ☐ |
| G) Cultural heritage/religious site ☐ | H) National park ☐ |
| I) Buffer zone ☐ | J) Conservation Area ☐ |
| K) Area used by indigenous people ☐ | L) Wildlife Sanctuary ☐ |
| M) Wetland ☐ | |
| N) Unique or aesthetically valuable land or water form ☐ | |
| O) Range of endangered or threatened animals and birds ☐ | |
| P) None of above ☐ | |

6. Study Team Recommendation:

- (I) Solar Mini Grid System (II) Wind Mini Grid System (III) Solar Wind Hybrid System
- (IV) Not Recommended

Name of Community Representative:	
Signature:	
Phone Number:	Mobile Number:
Name of Representative from Rural Municipality/Municipality:	
Designation:	
Signature:	Mobile Number:
Name of Representative from ESCO/Consulting Firm/Consultants:	
Designation:	
Signature:	Mobile Number:

NOTE:

ESCO/ Consulting Firms/Consultants are encouraged to provide additional information in addition to above asked check-list.