





VIABILTY GAP FUNDING BASED SUSTAINABLE ENERGY CHALLENGE FUND

Concept Note Format

1. Applicant Data	
Applicant Name (Lead applicant) *	
Street number and name*	
Ward number	
Town or municipality	
Zip code	
Telephone*	
Email*	
Key Contact Person: *	
Applicant organizations are either owned and/or led by	☐ Female
*	☐ Disadvantaged
	□ None
If yes please explain how the organization is owned and/or led by female and/or disadvantaged person *	
Are you in a Consortium? *	□ Yes
	□ No
If Yes, Name of the consortium members*	
Type of company	
Company Registration no*	
Company Registration date (YYYY-MM-DD) *	
PAN/VAT Number: *	
Major objectives of the company and key business areas	
Name of Major shareholders/ Partners*	
Name of Directors*	
Number of employees	
Details of past assistance from Development Partner including (former DFID) BEK	
Has your company audited in the last two or three years (external)	
	1







If Yes name of the auditors (Year wise) *		
2. Project Data – Part I		
Project province*	□ 2,	
, ,	□ Lumbini,	
	□ Karnali	
Project's geographical coordinates		
Type of renewable energy (RE) system	□ On-Grid,	
	□ Off-Grid	
Project's renewable energy (RE) source *	☐ Solar Photovoltaics,	
	☐ Solar Thermal,	
	☐ Wind Energy System,	
	☐ Hybrid System,	
	☐ Large Biogas,	
	☐ Micro and Mini Grid,	
	☐ Clean Cooking ,	
	☐ Clean Fuel,	
	□ Energy Storage System	
	☐ Others (Pls. specify)	
Other renewable energy (RE) technology*		
3. Technical Data		
	☐ Solar Home System	
	☐ Institutional Solar	
	□ Solar Water Pumping System	
Solar Photovoltaics	□ Solar Refrigeration	
Project's renewable energy (RE) technology*	☐ Solar PV Rooftop	
region of the master of the state of the sta	☐ Solar Mini Grid	
	□ Solar PV Net metered	
	□ Solar PV Utility Scale Solar	
	☐ Others (Pls. specify)	
If following Solar Photovoltaics technologies are chosen from above list, please provide		
below mentioned information ✓ Solar Home System		
✓ Institutional Solar		
✓ Solar Water Pumping System		
✓ Solar Refrigeration		
✓ Solar PV Rooftop		
✓ Others (Pls. specify) Technical Features		
PV panel capacity *	Wp	
Capacity of Refrigerator * (If Solar Refrigeration is	Liters	
chosen)	=	







Add PV refrigerators of different capacities	
Numbers per Panels	
Add PV panels of different capacities and numbers	
Total Watt Peak of Systems *	Wp
Total Number of Systems *	·
Current Source of Er	nergy
Current sources of Energy (Multiselect) *	☐ Kerosene,
	□ Diesel,
	☐ Grid.
	☐ Others (Pls. specify)
If following Solar Photovoltaics technologies are cho	, , , , , , , , , , , , , , , , , , , ,
below mentioned information	71
✓ Solar Mini Grid	
✓ Solar PV Net metered	
✓ Solar PV Utility Scale Solar	
Technical Feature	•
Proposed Installed Capacity *	Wp
Capacity Factor *	%
Annual Energy Generation *	kWh
Current Source of Er	
Current sources of Energy (Multiselect) *	☐ Kerosene,
	☐ Diesel,
	☐ Grid,
	☐ Others (Pls. specify)
Proposed % of electricity consumption contributed by this investment? self-consumption/local supply *	
Proposed % of electricity sales to grid contributed	
by this investment	
	☐ Solar Dryer
Solar Thermal	☐ Solar Cooker
Solar Mermai	□ Solar Water Heater
	□ Solar Thermal - Others
If following Solar Thermal technologies are chosen fr	om above list, please provide below
mentioned information	
✓ Solar Dryer	
✓ Solar Cooker	
✓ Solar Water Heater	
✓ Solar Thermal - Others	
Model *	es
Solar Dryer/ Others - Type (Multi Select) *	D. Diment
Joiai Diyei/ Others - Type (Wall Select)	☐ Direct,
Color Cooker Type (Multi Colort) *	□ Indirect
Solar Cooker - Type (Multi Select) *	☐ Absorption,
	☐ Concentration
Solar Water Heater - Type (Multi Select) *	□ Vacuum Tube,
	☐ Flat plate
Numbers *	







Add models of different types and numbers		
Current Source of Er	nergy	
Current sources of Energy (Multiselect) *	☐ Open Sun drying,	
	☐ Biomass,	
	□ LPG,	
	☐ Firewood	
	☐ Electricity	
	☐ Others (Pls. specify)	
	☐ Wind Energy Utility Scale	
Wind Energy System	☐ Wind Energy - Others	
If following Wind Energy System technologies are ch	9	
below mentioned information	nosen nem above net, piedee provide	
✓ Wind Energy Utility System		
✓ Wind Energy - Others		
Technical Feature	es	
Capacity *	kW	
Capacity Factor *	%	
Annual Energy Generation *	kWh	
Current Source of En	nergy	
Current sources of Energy (Multiselect) *	☐ Kerosene,	
	☐ Others (Pls. specify)	
Hybrid System	☐ Solar Wind Hybrid	
Technical Feature	es	
Capacity of Solar PV System *	kWp	
Capacity Factor of Solar PV System *	%	
Capacity of Wind Energy System *	kW	
Capacity Factor of Wind Energy System *	%	
Annual Energy Generation *	kWh	
Current Source of Er	nergy	
Current sources of Energy (Multiselect) *	☐ Kerosene,	
	☐ Others (Pls. specify)	
	☐ Large Biogas – Electricity	
Large Biogas	Generation	
	☐ Large Biogas – Thermal Use	
If following Large Biogas technologies are chosen from	om above list, please provide below	
mentioned information		
✓ Large Biogas – Electricity Generation		
Technical Features		
Plant Size *	Cu.m.	
Capacity of Generator *	kW	
No. of Operational hours/year *	Hours	
Annual Energy Generation *	kWh	
Current Source of Energy		
Current sources of Energy (Multiselect) *	□ Diesel,	
	☐ Grid.	







	☐ Others (Pls. specify)	
Proposed % of electricity consumption contributed		
by this investment? self-consumption/local supply *		
Proposed % of electricity sales to grid contributed		
by this investment		
If following Large Biogas technologies are chosen from	om above list, please provide below	
mentioned information		
✓ Large Biogas – Thermal Use		
Technical Feature	es	
Purpose (Multiselect) *	☐ Self-Consumption,	
	☐ Commercial	
Mode of Distribution	☐ Gas Cylinders,	
	☐ Pipeline distribution	
	☐ Gas Station	
Plant Size *	Cu.m.	
Gas meter reading *	Cu.m.	
Annual Energy Generation *	kWh [Conversion using	
Annual Energy Generation	(gas meter	
	reading*1.02264*40)/3.6]	
Current Source of Er		
Current sources of Energy (Multiselect) *	☐ Diesel,	
3, (,	☐ Grid,	
	☐ Others (Pls. specify)	
Proposed % of electricity consumption contributed	Others (Fis. specify)	
by this investment? self-consumption/local supply *		
Proposed % of electricity sales to grid contributed		
by this investment		
AND THE STATE OF THE		
Micro and Mini Grid	☐ Hydro	
If following Micro and Mini Origina should nice and the		
If following Micro and Mini Grid technologies are choolelow mentioned information	sen from above list, please provide	
✓ Hydro		
Technical Features		
Proposed installed Capacity *	kW	
Operating day/year *		
Operating hours/day *		
Annual Energy Generation *	kWh	
Type of Support needed (Multiselect) *	☐ System Improvement	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	☐ Grid interconnection	
If System Improvement (Multiselect) *		
ii System improvement (Multiselect)	☐ Management Improvement	
0 (0	☐ Technical Improvement	
Current Source of Er		
Alternative sources of Energy (Multiselect) *	☐ Small House System (SHS),	
	☐ Kerosene,	
	☐ Others (Pls. specify)	







	☐ Clean Cooking - Biomass
Class Caskins	☐ Clean Cooking – Biogas
Clean Cooking	☐ Clean Cooking – Electric
	☐ Clean Cooking – Others
If following Clean Cooking technologies are chosen formation	
✓ Clean Cooking - Biomass	
Technical Feature	es '
Numbers *	
Types of Stoves (Multiselect) *	☐ Metallic Improved Cook Stoves
	☐ Rocket Stoves
	☐ Gasifier Stoves
If Rocket Stoves (Multiselect) *	☐ Portable Metallic (Please
	specify tier level and model)
	☐ Composite (Mud + Metal)
	(Please specify tier level and
If Gasifier Stoves (Multiselect) *	model) ☐ Up draft
ii dasiiici didves (ividitisciedi)	☐ Down draft
	☐ Cross draft
NIBC Compliant? *	☐ Yes
NIBC Compilant:	
Numbers *	□ No
Current Source of E	 neray
Current sources of Cooking fuels in	□ LPG
Households/MSMEs (Multiselect) *	
()	☐ Firewood,
	☐ Loose Biomass,
	☐ Electricity,
If following Class Cooking to shoop of	Others (Pls. specify)
If following Clean Cooking technologies are chosen femoliary mentioned information	from above list, please provide below
✓ Clean Cooking - Biogas	
Technical Feature	es
Plant Size *	Cu.m.
Number per Plant Size *	kW
Gasmeter reading per plant size *	
Add plant sizes of different gasmeter readings and numbers	
Annual Energy Generation *	kWh
Current Source of E	nergy
Current sources of Cooking fuels in	□ LPG
Households/MSMEs (Multiselect) *	☐ Firewood,
	☐ Loose Biomass,
	☐ Electricity,
	☐ Others (Pls. specify)







If following Clean Cooking technologies are chosen from above list, please provide below		
mentioned information		
✓ Clean Cooking - Electric Technical Feature	<u> </u>	
Clean Cooking Type (Single select) *	□ Induction	
Clouit Cooking Type (Cingle Colock)	☐ Induction	
	☐ Hot plate,	
	☐ Electric Pressure Cooker,	
Number of units *	☐ Others (Pls. specify)	
Current Source of E	 nergy	
Current sources of Cooking fuels in	□ LPG	
Households/MSMEs (Multiselect) *	☐ Firewood,	
	☐ Loose Biomass,	
	☐ Electricity,	
If following Clean Cooking technologies are shoon	Others (Pls. specify)	
If following Clean Cooking technologies are chosen from above list, please provide below mentioned information		
✓ Clean Cooking - Others		
Technical Feature	es I	
Type of Cooking Solution Proposed * Number of units *		
Current Source of E	norav	
Current sources of Cooking fuels in	□ LPG	
Households/MSMEs (Multiselect) *		
(managara)	☐ Firewood,	
	☐ Loose Biomass,	
	☐ Electricity,	
	☐ Others (Pls. specify)	
	□ Pellets	
Clean Fuel	☐ Charred Briquettes	
	☐ Non - Charred Briquettes	
	☐ Others (Pls. specify)	
If following Clean Fuel technologies are chosen from above list, please provide below		
mentioned information		
✓ Pellets✓ Charred Briquettes		
✓ Charred Briquettes✓ Non - Charred Briquettes		
✓ Others		
Technical Features		
Annual Production Capacity *	Tons	
Targeted Client Base *		
Energy Storage System	☐ Energy Storage System	
If following Energy Storage System technologies are chosen from above list, please		
provide below mentioned information ✓ Energy Storage System		
Project's renewable energy (RE) technology *	Please specify type of battery	
	. Isass speeny type of battery	







Technical Featur		
Total Capacity *	AH	
Individual Battery Capacity *	AH	
Individual Battery Voltage *	V	
Number of batteries *		
System Voltage *	V	
Number of batteries in series *		
Number of batteries in parallel *		
Source of Energy (Multiselect) *	☐ Grid	
	☐ Solar PV	
	☐ Others (Pls. specify)	
Please Upload Technical Details file(s)	, , , , , , , , , , , , , , , , , , , ,	
Others	☐ Others	
If following RE source is chosen from above list, plea	ase provide below mentioned	
information		
✓ Others	I =	
Project's renewable energy (RE) technology *	Please provide technology details	
Please Upload Technical Details file(s)		
4. Project Data – Part II		
Business model proposed *	□ RESCO	
Business meast proposed	☐ Asset Owned	
	☐ Rent to Own	
	□ PPP	
	☐ Others (Pls. specify)	
Other business model proposed *		
Objectives of the project *		
Explain how the project addresses above		
objectives*		
35,000,700		
Project start date (tentative) *		
Project commercial operation date (tentative) *		
Project's salient features		
Trajecto canoni reatares		
In case of the consortium being formed for this		
project, how will the project be managed between		
consortium members?		
	,	
5. Project Beneficiaries Information Data		
Beneficiary Information.		







	☐ Households
	☐ Schools
	☐ Health Centers
Beneficiaries Target Groups *	☐ MSMEs
	☐ Industries/Commercial
	Institutions
	☐ Others (Pls. specify)
Number of people to be benefited?	
Basis of beneficiaries count	
Gender	
Male	
Female	
Others	
Caste and ethnicity	
Bahun Chhatri	
Chhetri Dalit	
Janajati/Adhibasi	
Madhesi	
Other caste	
Basis of caste and ethnicity count	
•	
Socioeconomic strata Poor	
Basis of poverty count	
Disability inclusion	
Potential for job creation	
Number of potential jobs creation	
Male	
Female	
Others	
If following Beneficiaries Target Groups chosen from	n above list, please provide below
mentioned information	
✓ Households	
Total beneficiary households to be covered	
If following Beneficiaries Target Groups chosen from	n above list, please provide below
mentioned information	
✓ MSMEs	
✓ Industries/Commercial Institutions	
Number of female led enterprises	
Basis of female led enterprises count	
If following Beneficiaries Target Groups chosen from	m above list, please provide below
mentioned information	
✓ Others	
Target group name	







6. Economics Data	
Status of the Project development (Select one or more) *	☐ No assessment done☐ Desk study/initial assessment
	completed
	☐ Pre-feasibility completed
	☐ Feasibility Study completed,
	☐ Detailed engineering design completed
Please upload the document related to the development status selected above	
In case of commercial project (Is pre-feasibility study or detailed feasibility study completed?)	☐ Yes,
	☐ Public Private Partnership,
	☐ Demand Aggregation,
	☐ Viability Gap Funding,
Project window * (Select one)	☐ System Improvement of existing
	mini/micro grid projects,
	☐ Reverse Auction,
If fallowing Duningt Window shapes from above list y	Others Innovative ideas
If following Project Window chosen from above list, profession information ✓ Demand Aggregation	please provide below mentioned
Year 1	
Enter Year in AD	
Market Development and promotion Cost	NPR
End-user investment Costs	NPR
Year 2	
Enter Year in AD	
Market Development and promotion Cost	NPR
End-user investment Costs	NPR
Year 3	
Enter Year in AD	
Market Development and promotion Cost	NPR
End-user investment Costs	NPR
Total market Development and promotion Cost *	NPR
Total end-user investment Costs	NPR
Source of Financing	
Company or Institution's Equity *	NPR
Contribution from Local Government	NPR
Contribution from Provincial Government	NPR
Contribution from Other Sources *	□ Yes,
	l □ No







If Yes, Name of the Development Partner *	
If Yes, Amount of Support from Other Sources *	NPR
Total	NPR
Explain the technical assistance expected from SECF	
Financial support expected from SECF *	NPR
Please upload document to demonstrate your financial calculation with yearly breakdown *	
If following Project Window chosen from above list, profession of the information of t	please provide below mentioned
Proposed equipment cost	NPR
Other project implementation cost	NPR
Total project cost	NPR
Source of Financing	
Company or Institution's Equity *	NPR
Bank Loan	NPR
Contribution from Local Government	NPR
Contribution from Provincial Government	NPR
Contribution from Other Sources *	☐ Yes, ☐ No
If Yes, Name of the Development Partner *	
If Yes, Amount of Support from Other Sources *	NPR
Explain the technical assistance expected from SECF	
Financial support expected from SECF *	NPR
Please upload document to demonstrate your financial calculation with yearly breakdown *	
Total	NPR
If following Project Window chosen from above list, prinformation ✓ Public Private Partnership ✓ Viability Gap Funding ✓ Other Innovative Ideas	please provide below mentioned
Estimated Cost of Project	
Installation cost *	NPR
Other costs	NPR
Total	NPR
Operation and maintenance costs per annum*	NPR
Source of Financing	
Company or Institution's Equity *	NPR
Bank Loan	NPR
Contribution from Local Government	NPR
Contribution from Provincial Government	NPR







Contribution from Other Sources *	☐ Yes,	
	□ No	
If Yes, Name of the Development Partner *		
If Yes, Amount of Support from Other Sources *	NPR	
Total	NPR	
Type of support expected from VGF based SECF: *	☐ Interest Buydown	
(Select one or more)	☐ Generation Based Incentive	
If following Support chosen from above list, please portable. ✓ Interest Buydown	rovide below mentioned information	
% of Interest Buydown Support expected	%	
If following Support chosen from above list, please provide below mentioned information ✓ Generation Based Incentive		
Generation Based Incentive per kWh	NPR	
Explain the technical assistance expected from SECF		
Financial support expected from SECF *	NPR	
Project Budgeting		
Net Present Value	NPR	
IRR	%	
Payback period (in years)	Years	
Please upload document to demonstrate your financial calculation with yearly breakdown		
If following Project Window chosen from above list, please provide below mentioned information ✓ System Improvement of existing mini/micro grid projects,		
Details of system improvement expected *		
Estimated Cost of Project		
Total Project cost *	NPR	
Support expected from VGF based SECF (NPR) *	NPR	
Source of Financing		
Company or Institution's Equity *	NPR	
Bank Loan	NPR	
Contribution from Local Government	NPR	
Contribution from Provincial Government	NPR	
Contribution from Other Sources *	☐ Yes,	
	□ No	
If Yes, Name of the Development Partner *		
If Yes, Amount of Support from Other Sources *	NPR	
Total	NPR	
Explain the technical assistance expected from SECF		
Financial support expected from SECF *	NPR	
Project Budgeting		







Net Present Value	NPR
IRR	%
Payback period (in years)	Years
Please upload document to demonstrate your financial calculation with yearly breakdown	

7. Financial Status

FY BS 2074/75 (2017-18)		
Turnover	NPR	
Earnings Before Interest & Tax	NPR	
Earnings Before Tax	NPR	
Net Profits	NPR	
Total assets	NPR	
Equity	NPR	
Loan	NPR	
FY BS 2075/76 (2018-19)		
Turnover	NPR	
Earnings Before Interest & Tax	NPR	
Earnings Before Tax	NPR	
Net Profits	NPR	
Total assets	NPR	
Equity	NPR	
Loan	NPR	
FY BS 2075/76 (2019-20)		
Turnover	NPR	
Earnings Before Interest & Tax	NPR	
Earnings Before Tax	NPR	
Net Profits	NPR	
Total assets	NPR	
Equity	NPR	
Loan	NPR	
Financial Statement of Past 3 years required (Attach Audit Report)		

8. Declaration *

I hereby certify that we (Lead Organisation):

- Are a registeredcompany on(date) with necessary approval/certification and our consortium members are also legally registered in Nepal.
- Have the relevant permissions/consents to promote and produce Renewable Energy services in the proposed areas for proposed institution from local governments.
- Are willing to abide by the requirements of the VGF based SECF, AEPC and NREP.
- Are willing to provide all reasonable information as requested by NREP, VGF based SECF and AEPC.







•	Have provided all the information about support/subsidy received from other
	development Partners/Organisation including Government Entity/Local
	Government/Province Government
•	Not backlisted by any Government agencies
Name & Designation: *	
D	ate· *

Note: Field with ($\mbox{\ensuremath{^{\star}}}$) mark are mandatary field.

Documents to be submitted at the full application stage Financial Model

1.	Copy of registration certificate with the relevant authorities
2.	Consortium declaration if relevant
3.	Financial statements (up to 3 years maximum)
4.	Previous audit reports (up to 3 years maximum)