Net Metering Application Form **Customer Information Sheet**



account name	·		(4.000) 5.144.45
	(FAMILY NAME)	(FIRST NAME)	(MIDDLE NAME)
ADDRESS:			
	(HOUSE #)	(STREET)	(BRGY)
-	(CITY/MUNICIPALITY)	(PROVINCE,	
		(FROVINCE,	1
Contact No	E	mail Address:	
	MER: Residential () Commercia) INDUSTRIAL ()
	CTION: UNDERBUILD () P		
IF PRIVA	TE WHAT IS THE SIZE OF TRANSFO)rmer in kva:, #	OF PHASES:
NOTE: DRAW LOC	ATION SKETCH ON THIS FORM INDICA	ATING THE MOST COMMON	LAND MARK
LOCATIO	NSKETCH		

Net Metering Application Form **CUSTOMER APPLICATION TECHNICAL INFORMATION SHEET**



TYPE OF RENEWABLE ENERGY FA CAPACITY OUTPUT: If connected to UB 5kW is	Watt (s)/ Peak	: DIS	S/DAS()	
TECHNICAL SPECIFICATION:				
INVERTER CONFIGURATION:	(GRI	D TIED/HYBI	<i>RID</i>) SYSTEM	
MODULE:				
TOTAL CAPACITY OUTPUT:	Watt(s)/peak			
INVERTER TYPE:	(Micro-Invert	er/ Central I	nverter)	
Waveform:	(Purely Sinuso	idal @ 60Hz	is recommend	ded)
Installer Information: Electrician/ Technician Name:(Fam	nily Name)		st Name)	(Middle Initial)
Company Name:				
Address:				
Contact No.:	 one No.)	_		Mobile No.)

<u>Note: All Technical Information of the Module, Inverter and Solar Panel must be attached on this form.</u>

THIS PORTION IS TO BE FILLED UP BY NOCECO HW INSPECTOR

EXISTING TECHNICAL INFORMATI	ON OF THE CUST	ГОMER	
METERING LOCATION: () MOP kWh METER INFORMATION:	() PEDESTAL	() HOUSE	
BRAND: TYPE: RATING:		Model: CLASS: PHASE: () Single	
Inspected by:		Contact #:	
Signature:			



NEGROS OCCIDENTAL ELECTRIC COOPERATIVE (NOCECO) Kabankalan City

FORM 2 APPLICATION FORM FOR INTERCONNECTION OF RENEWABLE ENERGY TO NOCECO DISTRIBUTION SYSTEM

Account Name:
Account Number:
Address:
INSTALLER INFORMATION:
NAME:
ADDRESS:
PEE/REE/RME LICENSE NUMBER:
Telephone No.:
Note : All applicable items must be accurately completed in so that facilities may be effectively evaluated by the cooperative for the interconnection with the NOCECO distribution system
Generating Facility Information
No. of Units:
Type (Synchronous/Induction/Inverter):
Fuel Source Type (Wind, Solar, Bio-gas, Etc.):
kW Rating per unit:
Kilo-Volt Ampere Rating (kVA) per unit:
Voltage Rating (V or kV):
Ampere Rating (A):
Phase (single or three):
Frequency:
Manufacturer:

Do you plan to export power?	YesNo
If yes, maximum capacity (expected
Pre-Certification Label or Type Nur	nber:
Target Energization Date or Start-U	p Date:
One-Line Diagram attached?	Yes
Normal Operation of Interconnection management, standby, backup, c	ction (examples: provide power to meet baseload, demand others (please describe)):
	dynamic modelling values to the DU? Yes quipment, answer is 'Yes')
Layout sketch showing lockable, "	visible" disconnect device Yes
Company	Customer Name
By:	By:
Title:	Title:
Date:	Date:



NEGROS OCCIDENTAL ELECTRIC COOPERATIVE (NOCECO) Kabankalan City

FORM 3 REQUEST FOR A DISTRIBUTION IMPACT STUDY (DIS) OF RENEWABLE ENERGY FACILITY FOR NET METERING

	All information in the "Gen aplete information may delay t	eral Connection Information" the processing of the study.	must be completed	in fu	.ااد
Date:					
1.	Account Name:				
2.	Existing NOCECO Account N	0			
3.	Customer Address:			_	
4.	Telephone/ Fax/ Email:				
5.	Project Name:				
6.	Target date of Construction:				
	Target date of Energization: _				
7.	Proposed Total Capacity:	kW k\	/A		
8.	Project Location (City/ Town/	/ Province):			
9.	Other Information:				
		Project Contractor	Consultant		
	Company/Person:				
	Contact Person:				
	Mailing Address:				
	Telephone:				
	Fax:				

10. Renewa	ble Energy Technology:
	Solar PV Wind (with Power Converter)
	☐ Wind (Induction Generator only)
	☐ Biomass/ Biogas ☐ Others (please specify)
11. Generai	tor Facility Type:
	(a) Generation Facility Voltage: AC volts DC volts
((b) Generation Capacity:kWkVA
((c) Type: Rotating Generators:
	Synchronous Induction Others (please specify)
((d) Non-Rotating DC Generation:
	☐ Photovoltaic Arrays ☐ Batteries ☐ Others (please specify)
12. Single Li	ne Diagram
<u> </u>	(Please attach a Single line diagram with approximate line distance for connection to nearby NOCECO facilities or metering. The Site Plan should include roads (with street names) and lot number and nearby power lines.)
13. Propose	ed connection point: () Primary () Secondary
14. Submit L	oad Profile and Renewable Energy capacity profile.
5	
Prepared by:	
Signature over l	Printed Name/Date
Signature over 1	mitod Name/ Date



NEGROS OCCIDENTAL ELECTRIC COOPERATIVE (NOCECO) Kabankalan City

FORM 4 IMPACT ASSESSMENT FORM

(For Solar Panels and Wind Turbines Equipped with Power Converter)

Note:

- (a) Kindly provide <u>all</u> the information requested below, if applicable. Indicate N/A (Not Applicable) where appropriate.
- (b) Should NOCECO require additional information to conduct the Impact Assessment, the requesting Customer should be duly notified and advised to be ready in providing the additional information.

Date:			

1. Electric System Description

Please provide NOCECO a Single Line Diagram (SLD) of the customer loads and generating facilities including the customer's point of interconnection to NOCECO'S Distribution System.

- · Riser Diagram (Loads and Generators)
- Systems Block Diagram
- DC System
- AC System
- AC and DC Grounding System
- Protection System
- · Synchronization Equipment
- Equipment (e.g. Generating Unit, Solar Panels, Inverters, Transformers, Circuit Breakers, etc.)
- Electrical Circuits
- Switching Facilities
- Phasing Arrangement

Note: The diagram/ drawing shall indicate the quantities, ratings, and operating parameters of the equipment and cables.

2.	Load Information: Customer and Generating Facility	

(a)	Updated Load Schedule (Please attach additional sheets	for the information)	
(b)	Total Connected Load:	1-phase	kVA	

(b) Total Connected Load:	1-phasekV	AkW
	3-phase k\	/AkW
(c) Maximum Continuous Load:	1-phasekV	AkW
	3-phase k\	/AkW
(d) Maximum Start-Up Load:	1-phasekV	AkW
	3-phase k\	/AkW

	(e)	Large	est Motor Size that would be Sta	arted:	HP	k'
	(f)	Maxir	mum Inrush Current of the Mot	or (multip	ole of full load current):	p.u.
3.			ng Facility Fault Contribution fo ance of generator:	r Faults a	it the Connection Point	
4.	Ge	nerato	or Facility Characteristics			
	(a)	Numl	ber of Generating Units:			
	(b)	Rated	d AC Capacity of Each Unit:			
			Gross:	k		kVA
			Net:	k	:W	kVA
(If un	it outp	outs are	e different, please attach addi	tional she	eets to provide the informa	ation.)
	(c)	AC N	et Capacity:		kW	kVA
	(d)	PV Pa	anel/ Module Data			
		i)	Manufacturer	:		
		ii)	Technology	:		
		iii)	Model No.	:		
		iv)	Total Plant Capacity	:		kWp DC
		v)	Rated Output	:		
		vi)	Operating Current	:		Amp
		vii)	Open Circuit Voltage	:		Volts
		viii)	Short Circuit Current	:		Amp
		ix)	Number of Units	:		
		x)	Total PV Array Area			
		xi)	Is there lightning protection	ı system a	available?	
		xii)	Yes No Grounding System Equipment			
	(e)	Inver	ter: (Please provide additional	sheets fo	or multiple models)	
		i)	Manufacturer/ Model		:	
		ii)	Technology Type:			
					Grid-Tie Off-Grid	
		iii)	Rated Capacity		:	
		iv)	Efficiency		:	
		v)	Number of Units		<u>:</u>	

vi)	Inverter DC Input Voltage	:Volts				
∨ii)	Inverter DC Input Current	:Amps				
∨iii)	Inverter AC Output Voltage	:Volts				
ix)	Inverter AC Output Current	:Amps				
x)	Number of Phases:					
		Dne hree				
xi)	Inverter Output Frequency	: Hertz				
xii)	Output Waveform:					
xiii)		quare Modified Sine rue/ Pure Sine Wave				
,	_	elf-Commutated				
xiv)	Inverter Input Type:	ine Commutated				
		oltage Source				
xv)	Control Scheme:	Current Source				
	_	/oltage Control				
x∨i)	Power Source for Inverter Con	Current Control trol Circuit:				
		OC Side				
		AC Side				
		oth (AC and DC Side)				
xvii)	Total Harmonic Distortion: % (Please attach Harmonic Data Plot/ Graph)					
x∨iii)	Inverter Rated Power Factor: _	%				
xix)	Inverter Power Factor Adjustments Range, if applicable (specify if lag or lead)					
	From: p.u.	top.u.				
xx)	Are power factor correction of	apacitors used?				
xxi)	If yes, total power correction installed:VAR					
xxii)	Number of Capacitor Steps:					
xxiii)	Grounding					
	System					
xxiv)	Are power factor correction breaker opens?	nt capacitors automatically switched off when inverter				
	☐ Yes					
xxv)	☐ No Does the inverter have surge p	protection available?				
,	Yes					

	xxvi)	No Does the inverter have short circuit shu	tdown capability?	
		Yes		
		□ No		
	xxvii)	Does the inverter have anti-islanding p	rotection?	
		Yes		
		□ No		
	xx∨iii)	Is the inverter paralleling equipment a	nd/ or design pre-certified?	
		☐ Yes		
	xxix)	If yes, to which standard(s)? (e.g.	UL-1741, CSA c22.2 No. 10	07.1-01, IEEE 1547)
	xxx)	Maximum inrush current upon inv	erter start-up (multiple of	full-load current)
	xxxi)	Is the inverter test certified?		
	,	☐ Yes		
		□ No		
		If yes, please atta	ch the Test Certificate .	
(f). (Charact	cteristics (Please attach additional sheets	s to provide the information)	
		armonic Data Plot/ Graph ' Curve/ PV Curve		
	iii) Op	pen Circuit		
	iv) V (Curves		
Tran	sforme	er Data (if applicable)		
	(a) Ma	anufacturer (if known)		
		ansformer Rating:	KVA	
	(C) Nu	umber of Phases:		
		One		
		Three		
	(d) No	ominal Voltage of High Voltage Winding:	Volts	
	(e) No	ominal Voltage of Low Voltage Winding:	Volts	
	(f) Hig	gh Voltage Winding Connection:		
		☐ Wye (3-phase)		
		Delta (3-phase)		
		Line-to-Line (1-ph	ase)	
		Line-to-Ground (1		
		Others		
	(g) Gro	rounding method of High Voltage Windir		
			•	
		■ Ungrounded		
		☐ Impedance: R	X	ohms

5.

	(h)	Low Voltage Winding Co	nnection:			
			Wye (3-phase)			
			Delta (3-phase)			
			Line-to-Line (1-phase))		
			Line-to-Ground (1-pha	ase)		
			Others	_		
	(i)	Grounding Method of Lo	w Voltage Winding N	eutral (if ap	pplicable):	
		_	Solid			
		_	Ungrounded			
	(i)		Impedance: R		X ohms	
	(j)	Series Impedance: (% ba	Unit 1	Unit 2	Unit 3	
		Resistance:				
		Leakage Reacta	ince:			
	(k)	Tap Information:				
		Number of Steps/ Taps:	above nominal tap _		below nominal tap	
		Minimum Tap:	(volts; p.u.)			
		Maximum Tap:	(volts; p.u.)			
5 .	Operat	ion Information:				
		Mode of Operation:				
		Annual Capacity Factor:				
					nd Timing:	
		Prospective Maintenanc			_	
				p	(
,	Expect	ed Monthly Generation 1	oad Consumption at	nd Net Co	nsumption (Energy and De	mand
•		-			for the Remaining Four Year	
	110111 (11	c racinty (12 month penot	ij ioi tile riist real alle	a Aillidaily	ioi ine kemailing roai reai	3.
Data	prepared	by:				
iana	ture over	Printed Name/Date				
луна	iuic ovel	i iiiitea Name/Date				