Net Metering Application Form **Customer Information Sheet**



ACCOUNT #:			
ACCOUNT NAME:			
	(FAMILY NAME)	(FIRST NAME)	(MIDDLE NAME)
ADDRESS: _			
	(HOUSE #)	(STREET)	(BRGY)
	(CITY/MUNICIPALITY)	(PROVINCE)	,
Contact No		mail Address:	
TYPE OF CONNECT	ER: Residential () Commercial FION: UNDERBUILD () PF EWHAT IS THE SIZE OF TRANSFO	RIVATE() DRMER IN kVA:,#	OF PHASES:
LOCATION	SKETCH		

Net Metering Application Form

CUSTOMER APPLICATION TECHNICAL INFORMATION SHEET



TYPE OF RENEWABLE ENER CAPACITY OUTPUT: If connected to UB !	Watt (s)/ Pea		
TECHNICAL SPECIFICATION:			
INVERTER CONFIGURATION:	(0	GRID TIED/HYBRID) SYSTEM	
MODULE:			
TOTAL CAPACITY OUTPUT:	Watt(s)/pe	eak	
INVERTER TYPE:	(Micro-Inv	verter/ Central Inverter)	
Waveform:	(Purely Sint	usoidal @ 60Hz is recommend	led)
Installer Information: Electrician/ Technician Na	me: (Family Name)		(Middle Initial)
Company Name:			
Contact No.:			
	(Phone No.)	1)	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	OMER	
METERING LOCATION: () MOP kWh METER INFORMATION:	() PEDESTAL	() HOUSE	
BRAND:		Model:	
RATING:		PHASE: () Single	() Three-Phase
Inspected by:		Contact #:	
Signature:			



Manufacturer:

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 Eggility Information
Generating Facility Information No. of Units:
Generating Facility Information No. of Units: Type (Synchronous/Induction/Inverter):
No. of Units:
No. of Units: Type (Synchronous/Induction/Inverter):
No. of Units: Type (Synchronous/Induction/Inverter): Fuel Source Type (Wind, Solar, Bio-gas, Etc.):
No. of Units: Type (Synchronous/Induction/Inverter): Fuel Source Type (Wind, Solar, Bio-gas, Etc.): kW Rating per unit:
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:
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):
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):

Do you plan to export power? Yes	No
If yes, maximum capacity expected _	
Pre-Certification Label or Type Number:	
Target Energization Date or Start-Up Date:	
One-Line Diagram attached? Yes	
Normal Operation of Interconnection (exarmanagement, standby, backup, others (plea	mples: provide power to meet baseload, demand ase describe)):
Has the manufacturer supplied its dynamic n (For Pre-Certified Equipment, o	•
Layout sketch showing lockable, "visible" disc	connect device Yes
Company	Customer Name
Ву:	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 plete information may delay t		iosi de completed in tol	
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 kVA	\	
8.	Project Location (City/Town)	/ Province):		
9.	Other Information:			
		Project Contractor	Consultant	
	Company/Person:			
	Contact Person:			-
	Mailing Address:			_
	Mailing Address: Telephone:			_
	<u> </u>			_

10. Renewable Energy Technology:
Solar PV Wind (with Power Converter) Wind (Induction Generator only)
☐ Others (please specify)
11. Generator 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 Line Diagram
(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 nearb power lines.)
13. Proposed connection point: () Primary () Secondary
14. Submit Load Profile and Renewable Energy capacity profile.
Prepared by:
Signature over Printed 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 informatio	n)
(b)	Total Connected Load:	1-phase	kVA	kW
		3-phase	kVA	kW
(c)	Maximum Continuous Load:	1-phase	kVA	kW
		3-phase	kVA	kW
(d)	Maximum Start-Up Load:	1-phase	kVA	kW

3-phase _____ kVA

	(e)	Larges	t Motor Size that	would be Star	ted:	HP		kW
	(f)	Maxim	um Inrush Currer	nt of the Motor	(multip	le of full load curren	t):	p.u.
3.			g Facility Fault Co nce of generator		Faults a	t the Connection Poi	nt	
4.	Ge	nerator	Facility Characte	eristics				
	(a)	Numbe	er of Generating	Units:				
	(b)	Rated	AC Capacity of I	Each Unit:				
			Gr	oss:	k	W		kVA
			Ne	et:	k	W		kVA
(If unit	outp	uts are (different, please	attach additio	onal she	ets to provide the in	formation.)	
	(c)	AC Ne	t Capacity:		I	<w< td=""><td></td><td>kVA</td></w<>		kVA
	(d)	PV Par	iel/ Module Data					
		i)	Manufacturer		:			
		ii)	Technology		:			
		iii)	Model No.		:			
		iv)	Total Plant Cap	acity	:		kV	√p DC
		v)	Rated Output		:			
		vi)	Operating Curr	ent	:		Ar	np
		vii)	Open Circuit V	oltage	:		Vc	olts
		viii)	Short Circuit Cu	urrent	:		Ar	np
		ix)	Number of Unit	s	:			
		x)	Total PV Array	Area	:			
		xi)	Is there lightnin	g protection s	ystem c	ıvailable?		
		xii)						
	(e)	Inverte	er: (Please provid	e additional st	heets fo	r multiple models)		
		i)	Manufacturer/	Model		:		
		ii)	Technology Typ	oe:				
						Grid-Tie Off-Grid		
		iii)	Rated Capacit	У		:		
		iv)	Efficiency			:		
		v)	Number of Unit	S		<u>:</u>		

vi)	Inverter DC Input Voltage		:	Volts
∨ii)	Inverter DC Input Current		:	Amps
∨iii)	Inverter AC Output Voltag	je	:	Volts
ix)	Inverter AC Output Currer	nt	:	Amps
x)	Number of Phases:			
xi)	Inverter Output Frequenc	One Three	:	Hertz
xii)	Output Waveform:			
xiii)	Type of Inverter:	•		
		Line Co	ommutated	
xiv)	Inverter Input Type:		e Source t Source	
xv)	Control Scheme:	L Collect	1 3001Ce	
xvi)	Power Source for Inverter	Curren Control Ci DC Side	Э	
xvii)	Total Harmonic Distortion: (Please attach Harmonic	 Data Plot/	% Graph)	
xviii)	Inverter Rated Power Fac	or:	%	
xix)	Inverter Power Factor Adj	ustments R	ange, if applicable (sp	pecify if lag or lead)
	From:	o.U.	to	p.u.
xx)	Are power factor correcti	on capaci	tors used?	
xxi)	If yes, total power correct	ion installe	d:	_ VAR
xxii)	Number of Capacitor Ste	os:		
xxiii)	Grounding Syste	m oment		
xxiv)			acitors automatically	switched off when inverte
xxv)	Does the inverter have sur	ge protec	tion available?	

xxvi)	Does the inverter ha	No ave short circuit shutdown c	capability?		
•		Yes			
		No			
xxvii	Does the inverter ho	ave anti-islanding protectio	uŝ		
	<u> </u>	Yes			
, a a dii		No		مسانات مای	
xxviii	ı) is ine inverier paralı	leling equipment and/ or de	esign pre-c	erilleas	
	H	Yes No			
xxix)	If yes, to which s	standard(s)? (e.g. UL-1741	, CSA c2:	2.2 No. 1	07.1-01, IEEE 1547)
xxx)		current upon inverter st	tart-up (m	ultiple of	full-load current)
.,	p.u				
xxxi)	Is the inverter test c				
		Yes			
	Ц	No If yes, please attach the T	est Certific	ate.	
(f) Char	acteristics (Please attac	ch additional sheets to prov			
(1).		or a damenarar or recitive pro-		,,,,,	
	Harmonic Data Plot/ Gr IV Curve/ PV Curve	raph			
	Open Circuit V Curves				
i∨)	v Curves				
Transforr	ner Data (if applicable)				
(a)	Manufacturer (if known)			
	Transformer Rating:				
	Number of Phases:				
(- 7					
	<u></u>	One			
		Three			
(d)	Nominal Voltage of Hig	h Voltage Winding:		_ Volts	
(e)	Nominal Voltage of Lov	v Voltage Winding:		_ Volts	
(f)	High Voltage Winding C	Connection:			
		Wye (3-phase)			
		Delta (3-phase)			
		Line-to-Line (1-phase)			
		Line-to-Ground (1-phase)			
		Others			
(g)	Grounding method of H	ligh Voltage Winding Neutr	al (if applic	:able):	
		Solid			
		Ungrounded			
		Impedance: R	Χ		ohms

5.

	(h)	Low Voltage Winding C	onnection:				
			Wye (3-phase)				
			Delta (3-phase)				
			Line-to-Line (1-phas	e)			
			Line-to-Ground (1-p	hase)			
			Others				
	(i) Grounding Method of Low Voltage Winding No			Neutral (if a	oplicable):		
		님	Solid				
		님	Ungrounded				
	(j)	Series Impedance: (% be	Impedance: R		X ohms		
	U)	Jenes impedance. (70 b	Unit 1	Unit 2	Unit 3		
		Resistance:					
		Leakage React	ance:				
	(k)	Tap Information:					
		Number of Steps/ Taps:	above nominal tap		below nominal tap		
		Minimum Tap:	(volts; p.u.)				
		Maximum Tap:	(volts; p.u	.)			
6.	Operat	ion Information:					
	Mode of Operation:			. <u></u>			
	•	Annual Capacity Factor:					
	•	Prospective Number of Annual Scheduled Star		arts/Stops c	rts/ Stops and Timing:		
	•	Prospective Maintenance Schedule for 5 Year		ars Operatio	n (Please attach.)		
7.	Expecte	ed Monthly Generation,	Load Consumption	and Net Co	nsumption (Energy and De	emand)	
	-	-	_		for the Remaining Four Yea	_	
		, , ,	,	,	•		
Data	prepared	by:					
Signa	iture over f	Printed Name/Date					