

SMALL GENERATOR INTERCONNECTION APPLICATION

This Interconnection Application is made between Public Service Company of Colorado, d/b/a Xcel Energy, and Customer, dated							
To be completed by Customer. Application is made for permission to interconnect to the Xcel Energy Electric Distribution System as follows:							
OWNER/APPLICANT INFORMAT	ION						
Company:							
Representative:	Phone Number:		FAX Num	ber:			
Title:		Email Addre	SS:				
Mailing Address:							
PROPOSED LOCATION OF GENI	EDATING DI ANT	AND DDOD	OSED IN	TEDCONNECTION			
Address:	LKATING FLANT	AND FROM	OSLD III	ILKCONNECTION			
PROJECT DESIGN / ENGINEERIN	NG						
Company:							
Representative:	Phone:	ne: FAX Number:		ber:			
Mailing Address:		Email Address:					
ELECTRICAL CONTRACTOR							
Company:							
Representative:	Phone:		FAX Num	ber:			
ailing Address Email Address:							
ESTIMATED LOAD INFORMATION							
The following information will be used to help properly design the Xcel-Customer interconnection. This information is not intended as a commitment or contract for billing purposes.							
Minimum anticipated load (generation not		VA:	Time:				
Maximum anticipated load (generation not		VA:	Time:				
Maximum anticipated load (generation not operating):			٧ ٨ .	Tillie.			
Existing Electric Service:							
Capacity:Amperes	Voltage:	Volts					
Service Character: o Single Phase	o Three Phase						
Estimated In-Service Date:							
Site Control Documentation: Documentation: Documentation request as required by Site Control: o Ownership of Site o O	nentation of site cont Code of Colorado Ro	egulations, Co	CR 4 723-3				



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Energy Producing Equipment/Inverter Summary:

Manufacturer:								
Model No.:	Version	No.: _						
o Synchronous o Ind								
Rating:k		Rating: kVA						
Generator Connection: o D		o Wye Ungrou			Grounded			
Generator Voltage:		•	,					
System Type Tested (Total S				o No:	attach product lit	erature		
Equipment Type Tested: o	•		tion Sys		-			
	,	per IEEE 1547.1 o	•		-	crature		
Турс	restear	501 ILLE 15 17.11 (n iele	<i>727</i> , 1.0., 110 C	crurica)			
(Complete all applicable items	, Copy th	nis page as require	d for ad	ditional generate	ors)			
SYNCHRONOUS GENE	RATOR	R DATA						
Unit Designation:	Unit Designation: Total number of units with listed specifications on site:				ns on site:			
Manufacturer:								
Type:		Date	of manu	ıfacture:				
Serial Number (each):								
Phases: 1 or 3		Speed:	RPM:		Frequency:	H	z	
Rated Output (each unit) Kilov	watt:		kW Kil	ovolt-Ampere:		kVA		
Rated Power Factor:	%	Rated Voltage:		V	Rated Current:		Α	
Field Voltage:	V	Field Current:	Current: A Motoring Po		Motoring Power	:	kW	
Synchronous Reactance (X _d):					kVA base			
Transient Reactance (X'd):			% on kVA base					
,				% on kVA base				
9 1 , ,				kVA base				
Zero Sequence Reactance (X ₀): % on kVA base								
Neutral Grounding Resistor (if	applicat	ole): Yes	No	Resistance:	Ohms			
I ² t or K (heating time constant)):							
Exciter data:								
Governor data:								
Additional Information:								
INDUCTION GENERATO	OR DA	ΓΑ						
Rotor Resistance (R _r):		Ohms	Stator	Resistance (Rs)	:		Ohms	
Rotor Reactance (X _r):	` '		Stator Reactance (X _s):				Ohms	
agnetizing Reactance (X _m): Ohms			Short Circuit Reactance (X _d "):				Ohms	
11.0				Frame Size:				
Exciting Current:			Temp	Rise (deg C°):				
Rated Output:	kW							
Reactive Power Required:				r (no Load)		kVAr (fu		
For a wound-rotor machine, do to rotor circuit, and circuit conf							r, etc.)	
•				, ,				



current waveforms.

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PRIME MOVER (Complete all applicable items)								
Unit Designation:								
Manufacturer:								
Serial Number:				Date of Man	ufacture:			
H.P. Rated:	H.P. Ma	x:		Inertia Const	ant:			lbft. ²
Energy Source (hydro, steam	, wind, etc	c.):	L					
Additional Information:	, ,	,						
Type of Interconnected	operat	ion						
Long term Parallel operation:	Yes	No						
Closed momentary transition:	Yes	No	Tra	nsition Close	d Time:	seconds		
Other (describe):								
,								
TRANSFORMER (If appl	icable)							
Manufacturer:			k	VA:				
Date of Manufacture:		Serial Numb	er:					
High Voltage:	V	Connection:	k delta	a kwye	Neutral	solidly grounded?	Yes	No
Low Voltage:	V	Connection:	k delta	a kwye	Neutral	solidly grounded?	Yes	No
Transformer Impedance (Z):				% on			k۱	√A base
Transformer Resistance (R):				% or			k۱	√A base
Transformer Reactance (X):		% on kVA base						
Neutral Grounding Resistor (ii	f applicab	le) Yes		No Res	istance:	Ohms		
Additional Information:								
INVERTER DATA (If appl	icable)							
UL Pre-certified per UL 1741	and IEEE	929?	es	No	Certification	on Number:		
Manufacturer:			lodel:					
Rated Power Factor (%):	Rat	ted Voltage (V		V	Rated C	urrent (Amperes):		Α
Inverter Type (ferroresonant, step, pulse-width modulation, etc.):								
Type of Commutation: k forced k line Minimum Short Circuit Ratio required:								
Minimum voltage for successf	ful commi	ıtation.						
Current Harmonic Distortion: Maximum Individual Harmonic (%): Maximum Total Harmonic Distortion (%):								
Voltage Harmonic Distortion: Maximum Total Harmonic Distortion (%): Maximum Individual Harmonic (%): Maximum Total Harmonic Distortion (%):								
Describe capability, if any, to				. ,				
. ,								
Additional Information:								
NOTE: Attach all available c	alculation	s test renorts	s and o	oscillographic	nrints show	wing inverter outp	ut volt	age and



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POWER CIRCUIT BREAKER (if applicable)					
Manufacturer:	Model:				
Rated Voltage: kV	Rated Ampacity (Amperes): A				
Interrupting Rating: A	BIL Rating: kV				
Interrupting Medium (vacuum, oil, gas, etc.):	Insulating Medium (vacuum, oil, gas, etc.):				
	AC k DC				
Control Voltage (Tripping): (Volts) k AC k DC k Battery k Charged Capacitor					
Close Energy: k Spring k Motor k Hydraulic k Pneumatic k Other					
Trip Energy: k Spring k Motor k Hydraulic k Pneumatic k Other					
Bushing Current Transformers (Max. ratio):	Relay Accuracy Class:				
Multi Ratio? k No k Yes: (Available ta					
Construction Schedule: Start date:	Completion date:				
MISCELLANEOUS (Use this area and any addition	onal sheets for applicable notes and comments)				
ADDITIONAL REQUIREMENTS: In addition to the items listed on this form, please attach: 1) Detailed One Line Diagram: o Yes 2) Installation Test Plan: o Yes 3) Site plan: o Yes 4) Major equipment (generators, transformers, inverters, circuit breakers, protective relays, isolation disconnect, etc.) specifications: oYes 5) Relaying detail: o Yes Date: 6) Metering telemetry: o Yes Date: 7) Test reports attached: o Yes Date: 8) Other applicable drawings or documents necessary for the proper design of the interconnection: Describe					
ACCEPTANCE The Customer agrees to provide Xcel Energy with any additional information required to complete the interconnection.					
Customer Signature	Date:				
Please upload this signed document to the Solar*Rewards online application website, along with the Line Diagram and Site Plan.					