

Application for Electrical Interconnection

Non-Net Metering Generating Facility — Level_4, 2 or 3 Interconnection Review

(For Generating Facilities with Electric Nameplate Capacities betweenabove 265 kW and of and no Larger than 20 MW and less)

Instructions

An Interconnection Customer who requests a Federal Energy Regulatory Commission Utah Public Service Commission jurisdictional interconnection must submit this Interconnection Request by hand delivery, mail, or delivery service to the public utility, PacifiCorp, d/b/a Rocky Mountain Power. This application should be completed by Interconnection Customers that are not eligible for net metering and with facility nameplate capacities betweenabove 256 kW and and no larger than 20 MW. The Interconnection Customer is to complete all fields of this application form to the extent that such requested information is applicable to the proposed Generating Ffacility. If questions exist about the applicability of the requested information or assistance is needed, please contact the designated contact person identified below:

	Designated Contact Person: <u>Laura R</u>	Raypush			
	Address: 825 NE Multnomah, Suite	1600, Portland	l, OR 97232		
	Telephone Number: <u>503-813-7040</u>				
	Facsimile Number: <u>503-813-6893</u>				
	E-Mail Address: laura.raypush@pac	ificorp.com			
<u>Legal</u>	Name of the Customer (or, if an ind	lividual, indiv	vidual's name):		
Name	:				
Contac	ct Person:				
	ng Address:				
	cal Address:				
Telepl	hone (Daytime):		(Evening):		
Facsin	mile Number:				
	il Address:				
Addre	ess of Customer Facility Where Pro	posed Genera	ting Facility wi		
	Address:				
City: _		_ State:		Zip Code:	



System Installer/Consulting Engine	er:			
Name:	Name:			
Mailing Address:				
Physical Address:				
		Zip Code:		
Telephone (Daytime):		(Evening):		
Facsimile Number:				
Application is for: N	lew Generating Facil	•		
· · · · · · · · · · · · · · · · · · ·	-	Existing Generating Facility describe:		
Will the Generating Facility be used f	•			
To Supply Power to the Interc To Supply Power to Others? [
For installations at locations with exist interconnect, provide:	ting electric service t	to which the proposed Small-Generating Facility will		
(Local Electric Service Provider*) *To be provided by the Interconnecti Mountain Power.	on Customer if the l	(Existing Account Number*) ocal electric service provider is different from Rocky		
Type of Service: Single Phase	Three Phase			



Requested Point of Interconnection:		
Interconnection Customer's Requested In-Service Date:		
Is Facility going to be a Qualified Facility ("QF")?		
If yes, has Applicant completed FERC "Notice of Self Certification"? Yes No		
Requested Procedure Under Which to Evaluate Interconnection Request 1:		
Please indicate below which review procedure applies to the interconnection request.		
Level 1 Certified, inverter based generating facility with an aggregate nameplate capacity of 25kW or less. An application fee is not required. Proof provided demonstrating certification with the following standards as applicable; please indicate type of certification below:		
☐ IEEE standards; and, ☐ UL Standards 1741 Inverters, Converters, and Controllers for Use in Independent Power Systems (January 2001).		
Level 2 - Certified interconnection equipment with an aggregate electric nameplate capacity of 2 MW or less. Generation facility does not qualify for a Level 1 review or has been reviewed but not approved under a Level 1 review. The application fee amount is \$50 plus \$1.00 per kW of the generation-Generating fFacility's capacity. Proof provided demonstrating certification with the following standards as applicable; please indicate type of certification below:		
 ☐ IEEE <u>sS</u>tandard <u>1547</u>s; and, ☐ UL Standards 1741 Inverters, Converters, and Controllers for Use in Independent Power Systems (January 2001). 		
Level 3 – Aggregate electric nameplate capacity rating is 20 MW or less and the Generating facility is not certified; does not qualify for a Level 1 or Level 2 review; or has been reviewed but not approved under a Level 1 or Level 2 review. The application fee amount is \$100 plus \$2.00 per kW of the gGeneratingon fFacility's capacity.		
¹ <u>Note:</u> Descriptions for interconnection review categories do not list all <u>Level 2 and 3</u> criteria that must be satisfied. For a complete list of criteria, please refer to R746-312, Electrical Interconnection. <u>Level 1</u> interconnection review of inverter-based Generating Facilities having a generation capacity of 25 kW or		

Generating Facility Information:

less requires a separate application form.



Application for Electrical Interconnection Non-Net Metering Generating Facility – Level 1, 2 or 3 Interconnection Review (cont.) Wind Hydro - Hydro Type (e.g. Run-of-River): Energy Source: Solar Diesel Natural Gas Fuel Oil Biomass Other (state type) _____ Prime Mover: Reciprocating Engine Gas Turbine Fuel Cell Steam Turbine Microturbine PVOther Type of Generator: Synchronous Induction Inverter Generator Nameplate Rating: ____kW (Typical) Generator Nameplate kVAr: _____ Interconnection Customer or Customer-Site Load: kW (if none, so state) Typical Reactive Load (if known): _____ Maximum Physical Export Capability Requested: _____ kW List components of the Small-Generating Facility equipment package that are currently certified (include proof from manufacture of certification in accordance with R746-312-5, Certifications): Equipment Type or Package Certifying Entity 1. _____ Is the prime mover compatible with the certified protective relay package? \(\sigma\) Yes □ No Generator (or solar collector) Manufacturer, Model Name & Number: Version Number:

Nameplate Output Power Rating in kW: (Summer) _____ (Winter) _____

Nameplate Output Power Rating in kVA: (Summer) _____ (Winter) _____

Rated Power Factor: Leading: Lagging:



	rs in generation facility to be interconnected pursuant to this Interconnection Request: ation: Single phase Three phase	
Inverter Manufacturer, Model Name & Number (if used):		
List of adjustable set points	s for the protective equipment or software:	
Note: A completed Power	Systems Load Flow data sheet must be supplied with the Interconnection Request.	
Proposed Generating Fac	ility Characteristic Data (for inverter-based machines):	
Manufacturer:	Model:	
	ated Line Commutated	
	ty Rated Output: Amps VoltskW	
Efficiency:% I	Power Factor:%	
•	ion current: Instantaneous RMS	
Harmonics characteristics:		
Start-up requirements:		
	ility Characteristic Data (for rotating machines):	
RPM Frequency:		
	istor (if applicable):	
	ation Curve and the Vee Curve.	
Salient Non-Salien		
	lb-ft Rated RPM: at rated generator voltage and current and % PF over-excited	
	at rated generator voltage and current and% FF over-excited	
	:	
	Amps	



Synchronous Speed:	_RPM		
Min. Operating Freq./Time:	_		
Generator Connection: Delta Wye Wye Grounded			
Direct Axis Synchronous Reactance, Xd:	_ P.U.		
Direct Axis Transient Reactance, X' d:	_P.U.		
Direct Axis Subtransient Reactance, X" d:	_P.U.		
Negative Sequence Reactance, X ₂ :	_ P.U.		
Zero Sequence Reactance, X ₀ :	_ P.U.		
KVA Base:	_		
Field Volts:			
Field Amperes:			
Provide appropriate IEEE model block diagram of excitation system and governor system in accordance with the regional reliability council criteria (WECC/NERC Reliability Standard MOD-012-0). A copy of the manufacturer's block diagram may not be substituted.			
Induction Generators: Manufacturer:			
Model No.: Version No.:			
Locked Rotor Current:	_ Amps		
Phases: Single Three-Phase			
Motoring Power (kW):	_		
I ₂ ² t or K (Heating Time Constant):	_		
Rotor Resistance, Rr:	<u>_</u>		
Stator Resistance, Rs:	<u>_</u>		
Stator Reactance, Xs:			
Rotor Reactance, Xr:	_		
Magnetizing Reactance, Xm:	<u>_</u>		
Short Circuit Reactance, Xd":	_		
Exciting Current:			
Frame Size: Design Letter: Temp. Rise:	°C.		
Reactive Power Required In Vars (No Load):			
Reactive Fower Required in Vars (No Load).			



Total Rotating Inertia, H: ______ Per Unit on kVA Base **Excitation and Governor System Data for Synchronous Generators Only:** Provide appropriate IEEE model block diagram of excitation system, governor system and power system stabilizer (PSS) in accordance with the regional reliability council criteria. A PSS may be determined to be required by applicable studies. A copy of the manufacturer's block diagram may not be substituted. **Interconnection Facilities Information:** Will a transformer be used between the generator and the point of common coupling? Yes □ No Will the transformer be provided by the Interconnection Customer? Yes No Interconnection Customer Transformer Data (please provide information for all transformers, attach é separate sheet if necessary): Is the transformer: \square single phase \square three phase Size: kVA Transformer Impedance: ______ % on _____ kVA Base Transformer Primary: Volts Delta Wye Wye Grounded Transformer Secondary: Volts Delta Wye Wye Grounded Wye Grounded Transformer Fuse Data (if applicable, for Interconnection Customer-Owned Fuse): (Attach copy of fuse manufacturer's Minimum Melt and Total Clearing Time-Current Curves) **Interconnecting Circuit Breaker (if applicable):** Manufacturer: Type: Load Rating (Amps): _____ Interrupting Rating (Amps): ____ Trip Speed (Cycles): _____ **Interconnection Protective Relays (if applicable):** If Microprocessor-Controlled: List of Functions and Adjustable Setpoints for the protective equipment or software: **Setpoint Function** Minimum Maximum



2			
5			
6.			
If Discrete Compon (Enclose Copy of ar	<u>ents:</u> ny Proposed Time-Overcur	rent Coordination Curves)	
Manufacturer:	Type:	Style/Catalog No.:	Proposed Setting:
Manufacturer:	Type:	Style/Catalog No.:	Proposed Setting:
Manufacturer:	Type:	Style/Catalog No.:	Proposed Setting:
Manufacturer:	Type:	Style/Catalog No.:	Proposed Setting:
Manufacturer:	Type:	Style/Catalog No.:	Proposed Setting:
Manufacturer:	Type:	Style/Catalog No.:	Proposed Setting:
(Enclose Copy of M Manufacturer:		nd Ratio Correction Curves)	
Type:	Accuracy Class:	Proposed Ratio Connection:	
Manufacturer:			
Type:	Accuracy Class:	Proposed Ratio Connection:	
Potential Transfor	mer Data (If Applicable):	<u>.</u>	
Manufacturer:			
Manufacturer:			

Other Facility Information:



Enclose copy of site electrical one-line diagram showing the configuration of total <u>proposed</u> Generating Facility equipment, current and potential circuits, and protection and control schemes. Please include system impedance and distance for all segments of the generating facility.
One Line Diagram attached: Yes No
Enclose copy of any site documentation that indicates the precise physical location of the proposed Small Generating Facility (e.g., USGS topographic map, distance from public utility facility number, other diagram or documentation).
Plot Plan attached: Yes No
Enclose copy of any documents that provide proof of site control.
Site Control attached: Yes No



Applicant Signature:

Applicant Signature:			
I hereby certify that all of the information provided in this application request form is correct. Applicant Signature:			
Title:			
An application fee may be required before appropriate fee is included with the app	ore the application can be processed. Please verify that the lication:		
Application fee included: Yes No			
Amount \$			
Printed Name:	Title:		