

Application for Small Generator Facility Interconnection Tier 2, Tier 3 or Tier 4 Interconnection (For Small Generator Facilities with Electric Nameplate Capacities of 10 MW and less)

Applicant Contact Informat	<u>ion</u> :				
Name:					_
Mailing Address:					_
City:		State:		Zip Code:	_
Telephone (Daytime):		(Evening):			_
Facsimile Number:		E-Mail Address:			_
Address of Customer Facil (if different from above) Street Address:					<u>cted :</u>
City:		State:		Zip Code:	_
System Installer/Consulting	a Engineer	:			
Name:		_			
Mailing Address:					_ _
City:					<u>-</u>
		(Evening):			_
		E-Mail Address:			_
Electric Service Information	n for Applic	ant's Facili	tv Where Ge	enerator Will Be Into	erconnected :
Capacity:(Amps					
Type of Service: Single F	·				
Will a transformer be used be				finterconnection?	Yes No
	_		•		
Transformer Data (If Applic					<u>ner):</u>
•	•	three phase? Size:		kvA	
Transformer Impedance:	% on _		kVA Base		
If Three Phase:					
Transformer Primary:	Volts	Delta	Wye	Wye Grounded	
Transformer Secondary:	Volts	Delta	Wye	Wye Grounded	
Transformer Tertiary:	Volts	Delta	Wye	Wye Grounded	



Requested Procedure Under Which to Evaluate Interconnection Request¹:

Please indicate below which review procedure applies to the interconnection request.

Tier 2 - Certified interconnection equipment with an aggregate Electric Nameplate Capacity of 2 MW or less. Indicate type of certification below. The application fee amount is \$500.

□ Lab Tested - tested to IEEE 1547.1 and other specified standards by a nationally recognized testing laboratory and is appropriately labeled.

□ Field Tested - an identical small generator facility has been approved by an Oregon utility under a Tier 4 study review process within the prior 36 months of the date of this interconnection request.

□ Tier 3 - A Small Generator Facility connected to the T&D system that does not export power. The Electric Nameplate Capacity rating may be 50 kW or smaller, if connecting to area network or 10 MW or smaller, if connecting to a radial distribution feeder. The application fee amount is \$1000.

□ Tier 4 - Electric Nameplate Capacity rating is 10 MW or smaller and the Small Generator Facility does not qualify for a Tier 1, Tier 2 or Tier 3 review or has been reviewed but not approved under a Tier 1, Tier 2 or Tier 3 review. Application fee amount is \$1000.

¹ <u>Note:</u> Descriptions for interconnection review categories do not list all criteria that must be satisfied. For a complete list of criteria, please refer to PUC Rule OAR 860, Division 082, (Rule).

Field Tested Equipment:

If the field tested equipment box is checked above, please include with the completed application the following information which will be required for review of Tier 2 field tested small generator facilities:

- A copy of the Certificate of Completion, signed by an Oregon utility that has approved an identical small generator facility for parallel operation.
- A copy of all documentation submitted to the Oregon utility that approved the Small Generator Facility for parallel operation under a Tier 4 study process.
- A written statement by the Applicant indicating that the small generator facility being proposed is identical, except for Minor Equipment Modification, to the one previously approved by an Oregon utility for parallel operation.
- If a Tier 2 Application, utilizing Field Tested equipment, is proposed the remainder of the application will not be required to be completed.

Small Generator Facility Information:

List interconnection components/system(s) to be used in the Small Generation Facility that <u>is</u> lab certified (required for Lab Tested, Tier 2 Interconnection requests only).



Form 2



Component/System NRTL Providing Label & Listing 1
2
3
4
5
Please provide copies of manufacturer brochures or technical specifications
Energy Production Equipment/Inverter Information:
Energy Production Equipment/Inverter Information: Synchronous Induction Inverter Other
Electric Nameplate Rating: kW kVA
Rated Voltage:Volts
Rated Current:Amps
System Type Tested (Total System): Yes No; (attach product literature) Customer-Site Load: (kW) (if none, so state)
Maximum Physical Export Capability Requested: (kW)
Individual Generator Power Factor
Rated Power Factor: Leading:Lagging:
For Synchronous Machines: Manufacturer:
Model No.: Version No.:
Submit copies of the Saturation Curve and the Vee Curve.
☐ Salient ☐ Non-Salient
Torque: lb-ft Rated RPM:
Field Amperes: at rated generator voltage and current and% PF over-excited
Type of Exciter:
Output Power of Exciter:
Type of Voltage Regulator:
Locked Rotor Current: Amps
Synchronous Speed:RPM
Winding Connection:
Min. Operating Freq./Time:
Generator Connection: Delta Wye Wye Grounded
Direct-axis Synchronous Reactance: (Xd)ohms
Direct-axis Transient Reactance: (X'd)ohms
Direct-axis Sub-transient Reactance: (X"d)ohms
Negative Sequence Reactance X ₂ : P.I.I



Form 2



Zero Sequence Reactance, X ₀ : P.U.
KVA Base:
Field Volts:
Field Amperes:
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.
For Induction Machines: Manufacturer:
Model No.: Version No.:
Locked Rotor Current: Amps
Rotor Resistance: (Rr)ohms Exciting Current:Amps
Rotor Reactance: (Xr)ohms Reactive Power Required:
Magnetizing Reactance: (Xm)ohmsVARs (No Load)
Stator Resistance: (Rs)ohmsVARs (Full Load)
Stator Reactance: (Xs)ohms
Short Circuit Reactance: (X"d)ohms
Phases: Single Three-Phase
Frame Size:OC.
Reverse Power Relay Information: (This section applies to Tier 3 Review Only) Manufacturer:Model:
Electric Nameplate Capacity rating: (kVA)
Additional Information For Inverter Based Facilities:
Inverter Information: Manufacturer: Model: Type: Forced Commutated Line Commutated
Electric Nameplate Capacity Rated Output: Amps VoltskW
Efficiency:% Power Factor:%
DC Source / Prime Mover: Solar Wind Hydro Other
Electric Nameplate Capacity Rating: kW Rating: kVA
Rated Voltage:Volts
Open Circuit Voltage (If applicable):Volts



Tier 2, Tier 3 or Tier 4 Interconnection Application

Rated Current:A	mps
Short Circuit Current (If applicable):	Amps
Other Facility Information: Is Facility a QF? Yes No	
If yes, has Applicant completed FERC "No One Line Diagram attached: Yes No	
Plot Plan attached: Yes No	
Enclose copy of any site documentation t	that indicates the precise physical location of the proposed pographic map, distance from public utility facility number,
Enclose copy of any documents that provide	de proof of site control.
	rovided in this application request form is correct.
Applicant Signature:	
Title:	Date:
An application fee is required before the a appropriate fee is included with the application	pplication can be processed. Please verify that the ation:
Application fee included	
Amount	
Public Utility Acknowledgement: I hereby acknowledge the receipt of an Interest of the Public Utility Acknowledge the receipt of the Interest	erconnection Request and Application Fee,
upon the Applicant's Small Generator Fac	nall Generator Facility interconnection is contingent cility passing the screens and completing the review in OAR 860, Division 082 and is not granted by the Form.
Public Utility Signature:	Date:
Printed Name:	Title:
Note: The Public Utility shall retain a copy of this of to the Applicant.	completed and signed form and return the original and any attachments

Form 2