

City, State, ZIP

Level 2, 3 and 4 Interconnection Application for Certified, **Inverter-Based Generating Facilities 25KW and Greater**

The Customer-Generator applicant ("Applicant") hereby makes application to the T & D Utility to install and operate a generating facility interconnected with the transmission and distribution utility system. This application will be

considered as an application for interconnection of generators under Expedited interconnection review provided the generator is not greater than 10MW but shall serve as an Application for Standard interconnection review if greater than 10 MW or if Expedited review does not qualify the generator for interconnection. An application is a Complete Application when it provides all applicable information required below. (Additional information to evaluate a request for interconnection may be required and will be so requested from the Interconnection Applicant by Utility after the application is deemed complete). Once complete, please sign and include your (\$) application fee and mail to the following address applicable for your service territory: Distribution Interconnection Coordinator PO Box 932 Bangor, ME 04402-0932 Example Document Types for filename Or Email at: dginterconnections@versantpower.com - Application - One Line Drawing Ensure file name and subject line are identified as per format below: - Schematic Drawings Developer Name - City - mm/dd/yyyy - Document Type - Site Documentation (Make check payable to: Versant Power or Contact for Funds Transfer Instructions) - Site Control 1. Project Name or Legal Name of Interconnecting Applicant (or, if an Individual /Individual's Name) Name **Contact Person Account Number** Company Name (Existing Account Number, if generator to be interconnected Proposed generation on the Customer side of a facility address utility revenue meter.) City, State, ZIP Telephone (Day) Telephone (Evening) Email Address (Please use email that is intended for use throughout the process) Interconnect Service Type (Must Choose One) **Network Resource** Energy Only (Settlement Only) Load Response (no export) Net metering (NEB) Procurement 2. Contact (if different from Interconnection Customer) Name **Contact Person** Owner of the facility (include **Account Number** percent ownership by any electric utility) Address Telephone (Day) City, State, ZIP Telephone (Evening) **Email Address** Fax **Installing Electrical Contractor Information** Company Representative Title Fax Address Telephone (Day)

Email Address



4. <u>Timing</u>										
Requested In-Service Date										
5. Generating Qualifications										
Inverter Manufacturer					Model Name					
PS-CAD Version No.					Serial No.					
PS-CAD Model attached Applicable for Level 4 only Yes No (if <u>NO</u> is selected, please request manufacturer to provide ASAP)										
Nameplate Output Power Rating (in KW or KVA)				Summe	er		kW		kVA	
				Winter			kW		kVA	
Individual Generator Power Factor				Rated F	Power Factor		Leading		Lagging	
Generating Facility/Invert	er AC outp	ut volta	age				Volts			
Generating Facility Type										
Phase	Single	e Phase		Three Ph	ase					
Facility Type	☐ Sync	hronou	s C] Induct	tion \square Inver	ter \Box] _{Other}			
Total Number of Generato				licable) t	o be interconne	cted pur	suant to this Into	erconn	ection	
Request	Elevati	ion			Single Phase		Three Phase	е		
Please provide Battery IN	VERTER de	etails, if	differ	ent						
Manufacturer					Model		PS-CAD \	PS-CAD Version No		
Battery Storage Details (if	applicable	<u>e)</u>							_	
Battery Storage rating			kW a	ınd	AH or	KWH			☐ Grid/Utility	
(if applicable)							BESS charg	ge type	□ PV	
Describe operating mode										
A short explanation on how BESS will be operated, such as ISO or utility controlled, frequency or voltage support, etc.										
List of adjustable set point	ts for the p	orotecti	ve eq	uipment	orsoftware					
Rated system current Generating facility Location		(amps)								
(Road Name, Town, and Digital G or Pole No)		res								
Interconnection Customer orkW , if none, explain										
Customer-Site Load										
Typical Reactive Load (if known)										
Maximum Physical Export Capability Requested:	_		kV	v						
Prime Mover:										
Photovoltaic/Reciprocating										
	Engine/Fuel Cell/Turbine/Other									
(describe)										
Energy Source: Photovoltaic/Wind/Hydro	/Diesel/									



Natural Gas/Fuel Oil/Reciprocating Engine Other (describe)										
Is the equipment UL1741-SA Listed? If YES, attach any documentation provided by the generator manufacturer describing the UL1741 listing for the generating facility to this application.										
Is the equipment 1547-2018 Compliant? If YES, attach any documentation provided by the generator manufacturer describing the 1547-2018 listing for the generating facility to this application.										
List components of the Small Generating Facility Equipment Package that are currently certified:										
Equipment Type (Major equipment)		Certifying Entity (UL, IEEE etc)								
Is the prime mover compatible with Note: A completed Power Systems Load Flow dat					□Yes □No					
6. Small Generating Facility Chara					_					
Max design fault current			Ins	tantaneous or RMS?	☐ Instantaneous					
% of rated current/total amps					☐ RMS					
Harmonics Characteristics: (Maximum THD - Total harmonic distortion)										
Start-up requirements:	Start-up requirements:									
7. Small Generating Facility Charac	teristic D	ata (for rotating n	nachines)							
RPM Frequency	(*)	Neutral Groundir	ng Resisto	r (If Applicable):	_					
8. Synchronous Generators		D.U.		KVA Base						
Direct Axis Synchronous Reactance, X'c	li	P.U.								
Direct Axis Transient Reactance, X'd Direct Axis Sub-Transient Reactance, X'	d	P.U. P.U.		Field Amperes Field Volts						
Negative Sequence Reactance, X2	<u> </u>	P.U.		Tield Voits						
Zero Sequence Reactance, X0	_									
9. Induction Generators										
Motoring Power (kW)			Stator R	esistance, Rs						
I 2t or K (Heating Time Constant)			Stator R	leactance, Xs						
Rotor Resistance, Rr			Magnet	izing Reactance, Xm						
Rotor Reactance, Xr			Short Ci	rcuit Reactance, Xd"						
Exciting Current			Temper	ature Rise						
Frame Size			Design I	Letter						
Reactive Power Required In Vars (No Load)	Reactive Power Required In Vars (Full Load): _									
Total Rotating Inertia	H:Per Unit on kVA Base									



Note: Please contact the T & D Utility prior to submitting this Interconnection Application to determine if the specified information in Section 9 above is required.

10. Excitation and Governor System Data for Synchronous Generators Only Induction Generators

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.

A copy of the manufacturer's block diagram may not be substituted.												
11. Interconnection Facilities Information Transformer Data (If Applicable, for Interconnection Customer- Owned Transformer):												
Will a transform	Il a transformer be used between the generator and the Point of Interconnection?											
Will the transfo	e transformer be provided by the Interconnection Customer?									□No		
Transformer Phasing and size Single phase Three phasekVA (Size)												
Transformer Im	pedance			percent onkVA Base								
If Transformer is three Phase, please provide following details												
	Tra	nsformer	Primary	Transform	er Secondary Trai			Tran	nsformer Tertiary			
Volts												
Delta												
Wye												
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)												
Manufacturer					Тур	e						
Size				Speed								
Interconnecting	g Circuit Bro	eaker or R	eclosure (if a	ipplicable):								
Manufacturer					Тур	e						
Load Rating (Ar	mps):		Interrupt	Interrupting Rating (Amps):				Trip Speed (Cycles)			
Interconnection If applicable):	terconnection Protective Relays applicable):			Microprocessor Manufacturer & Mo				lodel				
· · · · · · · · · · · · · · · · · · ·		-	-	owing information								
Set-Point Function				Minimum			Maximum					
1												
2												
3												
4												
5												
6												
If Discrete Components: (Enclose Copy of any Proposed Time-Overcurrent Coordination Curves)												
Manufacturer	Manufacturer Type:				Style/Catalog No				Pi	roposed Setting		



Current Transformer Data (If Applicable): Enclose copy of Manufacturer Excitation and Ratio Correction Curves)													
Manufacturer	Type: Accuracy Class								Proposed Ratio Connection				
Potential Transfo	rmer D	ata (If Appl	icable):										
Manufacturer Type: Accuracy Class								Proposed Ratio Connection					
General Information Checklist													
General Information Checklist Please select check box under "Reviewed Column" for each item listed below verifying that a complete package has been submitted and the													
Customer(s) are awa	re of all r	equirements						N (2)					
Fueles a service of all	'A14		Checkli		f:	- II C	11	Yes / No	Reviewed				
Enclose a copy of si Generating Facility			_	_	_								
devices from the Po			_		_								
schemes. If the Sma			-		•								
signed and stampe	d by a li	censed Profe	essional Er	ngineer.				_					
								Yes					
Is a One-Line Diagra								□No					
Enclose a copy of a	-				-			□Yes					
of the proposed Small Generating Facility. Including device layout that corresponds with													
single line diagram (e.g., USGS topographic map or other diagram or documentation). Proposed location of interface equipment and interconnection is shown on the site plan													
including address													
Enclose a copy of any documentation that describes and details the operation													
of the protection and control schemes.								□No					
Site Control (Please attach if applicable)								│ □ Yes │ □ No					
Enclose copies of schematic drawings for all protection and control circuits, relay current							urrent	Yes					
circuits, relay potential circuits, and alarm/monitoring circuits (if applicable)								□No					
Information Req	uired P	rior to Physic	cal Interco	onnection									
Installing													
Electrician													
Firm													
License No.													
Mailing Address			7:				City						
State			Zip Code			Tele	ephone						
Applicant's Signa													
I hereby certify that, to the best of my knowledge, all the information provided in the Interconnection Application is													
true and correct. I also agree to install a Warning Label provided by (utility) on or near my service meter location. Generating systems must be compliant with IEEE, NEC, ANSI, and UL standards, where applicable. By signing below, the													
Applicant also certifies that the installed generating equipment meets the appropriate preceding requirement(s) and													
can supply docur			_		ccto tire up	- P - O F	acc prec	- Samp requi	· cc.it(s) and				
Signod							Date						
Signed							Date						