

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, plus a separate \$40 Interconnection Ombudsman Fee per 65-407 C.M.R. ch. 328, § 2(B), and mail to the following address applicable for your service territory: **Versant Power** Example Document Types for filename **Distribution Interconnection Coordinator PO Box 932** - Application Bangor, ME 04402-0932 - One Line Drawing Or Email at: dginterconnections@versantpower.com - Schematic Drawings Ensure file name and subject line are identified as per format below: - Site Documentation Developer Name - City - mm/dd/yyyy - Document Type - Site Control (Make checks payable to: Versant Power or Contact for Funds Transfer Instructions) 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) Note* Review recent NEB qualifications and changes when making this selection **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 Qualific	cations											
Inverter Manufacturer					Model Name,	/ Version N	o.					
PS-CAD Version No.	O Version No.				Quanity of Ir	nverters						
PS-CAD Model attached Applicable for Level 4 only		□ye	s 🗆	No (if <u>N</u>	I <u>O</u> is selected,	please req	quest r	manufacture	r to pro	vide i	4 <i>SAP)</i>	
Aggregate Nameplate Output Power Ra (in KW or KVA)			ng	Sumn	ner			kW			kVA	
			Winter		er			kW	kVA		kVA	
Individual Generator Powe	er Factor			Rated	Power Factor			Leading	Lagging			
Generating Facility/Inverte	er AC out	put vol	ltage				,	Volts				
Generating Facility Type												
Phase	Sing	le Phas	se 🗆 -	Three P	hase							
Facility Type	☐ Synd	chrono	ous [Indu	ction 🗆 Inv	verter [□ Otl	her				
Total Number of Generato	rs in win	d farm	(if app	licable)	to be intercor	nnected p	ursuai	nt to this Inte	erconne	ection		
Request	Eleva	tion			Single Phase			Three Phase	9			
Please provide Battery IN	VERTER d	letails,	if differ	ent								
Manufacturer					Model			PS-CAD V	ersion	No		
Battery Storage Details (if	applicabl	le)										
Battery Storage rating (if applicable)			_kW a	ndAH or KWH				BESS charge type Grid/Uti		Grid/Utility PV		
Describe operating mode on the one-line diagram (attach with the application) 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	s for the	protec	tive eq	uipmen	nt or software							
Aggregate Rated system c	urrent	_		(amps)							
Generating facility Location (Road Name, Town, and Digital Gi or Pole No)	า	ntes										
Interconnection Customer or Customer-Site Load			kW , if none, explain									
Typical Reactive Load (if k	nown)											
Maximum Physical Export Capability Requested:				k	:W							
Prime Mover: Photovoltaic/Reciprocatin Engine/Fuel Cell/Turbine/ (describe)	_											
Energy Source: Photovoltaic/Wind/Hydro	/Diesel/											



Natural Gas/Fuel Oil/Reciprocating Engine Other (describe)										
Is the equipment UL1741-SB Listed? If YES, attach any documentation provided by the facility to this application.	generator	manufacturer describing	□Yes □No							
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)	and Qty									
Is the prime mover compatible with the certified protective relay package? Note: A completed Power Systems Load Flow data sheet must be supplied with the Interconnection Application										
6. Small Generating Facility Characterists										
Max design fault current Instantaneous or RMS? Instantaneous										
% of rated current/total amps				RMS						
Harmonics Characteristics: (Maximum THD - Total harmonic distortion)										
Start-up requirements:										
7. Small Generating Facility Charac	teristic [Data (for rotating n	nachines)							
RPM Frequency	(*	*) Neutral Groundir	g Resistor (If Applicable):							
8. Synchronous Generators		D.11	10.4A B							
Direct Axis Synchronous Reactance, X'd	<u> </u>	P.U.	KVA Base							
Direct Axis Transient Reactance, X'd		P.U.	Field Amperes							
Direct Axis Sub-Transient Reactance, X'	a	P.U.	Field Volts							
Negative Sequence Reactance, X2	_	P.U.								
Zero Sequence Reactance, X0 9. Induction Generators		P.U.								
Motoring Power (kW)			Stator Resistance, Rs							
I 2t or K (Heating Time Constant)			Stator Reactance, Xs							
Rotor Resistance, Rr			Magnetizing Reactance, Xm							
Rotor Reactance, Xr			Short Circuit Reactance, Xd"							
Exciting Current			Temperature Rise							
Frame Size			Design 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	Will a transformer be used between the generator and the Point of Interconnection?											
Will the transfo	I the transformer be provided by the Interconnection Customer?											
Transformer Ph	nasing and s	size	Single	e phase	Three	phase		kV	A (Size)			
Transformer Im	pedance			percent onkVA Base								
If Transformer is three Phase, please provide following details												
	Tra	nsformer	Primary	Transform	er Secondary Tra			Tran	insformer 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 Bre	eaker or Re	closure (if a	pplicable):								
Manufacturer					Тур	e						
Load Rating (An	mps):	os):		Interrupting Rating (Amps):				Trip Speed (Cycles)			
Interconnection If applicable):	rconnection Protective Relays oplicable):			Microprocessor Manufacturer & Mod				lodel				
If Microprocessor-Controlled, please provide following information List of Functions and Adjustable Setpoints for the protective equipment or software												
Set-Point Function				Minimum			Maximum					
1												
2												
3												
4												
5												
6												
If Discrete Components: (Enclose Copy of any Proposed Time-Overcurrent Coordination Curves)												
Manufacturer	lanufacturer Type:				Style/Catalog No				Pi	roposed Setting		



Current Transfor	mer Da	ta (If Applic	able): Enc	lose copy of Manufa	cturer Excitation	and Ra	tio Correcti	on Curves)			
Manufacturer			Т	ype:	Accuracy Cla	ass		Proposed	d Ratio Connection		
Potential Transfo	rmer D	ata (If Appli	icable):								
Potential Transformer Data (If Applicable): Manufacturer Type: Accuracy Class								Proposed Ratio Connection			
				71				.,			
General Informa											
Please select check b Customer(s) are awa			mn" for eac	th item listed below t	verifying that a c	complet	te package i	has been subn	nitted and the		
			Checkli	st				Yes / No	Reviewed		
Enclose a copy of s	ite elect	rical one-line	e diagram	showing the con	figuration of	all Sm	all				
Generating Facility			_		_						
devices from the P	CC to th	e invertor, cu	ırrent, po	tential circuits, a	nd protection	1 & co	ntrol				
schemes. If the Sm		_		•	one-line diag	gram r	nust be				
signed and stampe	d by a li	censed Profe	ssional Er	ngineer.				П.,			
		12						□ Yes □ No			
Is a One-Line Diagr			hat indica	tos the presise n	husical lacati	ion		□Yes			
Enclose a copy of any documentation that indicates the precise physical location											
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								□Yes			
including address								□No			
Enclose a copy of any documentation that describes and details the operation								□Yes			
of the protection and control schemes.							□No				
								Yes			
Site Control (Please attach if applicable)								□No			
Enclose copies of schematic drawings for all protection and control circuits, relay current								□Yes			
circuits, relay pote					applicable)			□No			
Information Req	uired P	rior to Physic	al Interco	<u>onnection</u>							
Installing											
Electrician Firm											
License No.											
Mailing Address							City				
Walling Address			Zip								
State			Code			Tele	phone				
Applicant's Signa	ature										
I hereby certify t	hat, to t	he best of m	y knowled	dge, all the inforr	nation provid	led in	the Interd	connection	Application is		
true and correct.		-					-				
		-						-	gning below, the		
Applicant also ce			_		meets the ap	opropi	riate prec	eding requi	rement(s) and		
can supply docur	nentatio	on that confi	rns comp	iiance.							
Signed							Date				