Rule 5.500 Application for Interconnection of Distributed Energy Resources Up To 150 kW

Telephone: 802-223-5245; Fax: 802-223-6780

www.washingtonelectric.coop

This form may be made available in an electronically fillable format and it is permissible to submit the form with electronic signatures.

Preamble and Instructions:

An owner of a distributed energy resource who requests interconnection to a State-regulated distribution or transmission facility must submit an application to the Interconnecting Utility. An application is accepted as complete when it provides all applicable information required.

1.Applicant:			
Name:			
Address [eSITE ID]:			
City:		State:	Zip:
Telephone (Day):		(Alternate):	
		· /	
		cable):	
•	Tribut I (mile of (if upp in	· -	
•			
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		or coordinating company, if appropriate)	
City:		State:	Zip:
Telephone (Day):		(Alternate):	
Email:			
Will the Consention I)	af the fall arrive 2 Cl. 1 11 1	1
Net-Metering?	resource be used for any	of the following? Check all that app	Yes□ No□
Group Net-Metering? (If yes, please provide group information directly to your utility)			Yes□ No□
Non-Exporting?			Yes□ No□
To participate in the Standard Offer Program?			Yes□ No□
Participate in the wholesale electricity market?			Yes□ No□
Qualifying Facility ¹ where 100% of output will be sold to Interconnecting Utility?			Yes□ No□
	intending to sell power at		
· · · · · · · · · · · · · · · · · · ·	han Interconnecting Utility	?	Yes□ No□
Other (describe):			
	age system, check the m Peak Shaving	ode of operation below: (Check all the Retail Demand	
	Emergency/Back-up	☐ Frequency Re	_
		ation(describe)	C
		ation(describe)	
	Omer (describe)		

¹ Evidence of FERC QF Certification will be required prior to commercial operation

2. Project Specifications:

All power ratings should be listed in AC throughout unless otherwise noted Physical Address [eSITE ID]: ☐ Same as above Zip: _____ City: State: Is this an amendment to an existing system? Check One: Yes□ No□ If YES, what is existing CPG# Please describe the proposed amendment: Energy Source: Check all that apply □ Solar □Wind □Hydro ☐ Energy Storage Other: Interconnection Configuration? Check One ☐ Generation Meter ☐ Behind Consumption Meter Total number of inverters to be interconnected pursuant to this Application: Total Aggregate Nameplate Rating for all generators (kW):_____ Total Generating Export Capacity ² Requested (kW):_____ **Individual Generator Data:** Provide for each Generator, use additional sheets if needed. Type of Generator: Check One: □ DC Generator or Solar (Inverter) □ Synchronous □ Induction □Other If SYNCHRONOUS or INDUCTION generator (rotating machine), fill out Generator Technical Information in "Application for Interconnection of Distributed Energy Resources greater than 150 kW" Photovoltaic (PV) Data Panel Manufacturer Model Quantity of PV panels Power Rating per panel (DC Watts) Total Power Rating (DC Watts)_____ ☐ Roof Mount ☐ Ground Mount ☐ Other System Orientation: \Box fixed mount \Box 1-axis tracking \Box 2-axis tracking

² As limited by any export controls

PV Individual Inver	ter Data :			
Provide for each inverte	r, use addit	ional sheets if needed.		
Inverter Manufactur	rer:			
Model Name & Nur	mber:			
Version Number:				
Nameplate Rating:	(kW)	(kVA)	(AC V	/olts)
If Power Factor not	•			
				rexcited)
Minimum Power	r Factor:	(Underexcited)	(Over	rexcited)
☐ Single phase	\Box Thr	ee phase (Check one)		
Do export controls	apply to t	his inverter? (Check one	e) Yes□ No□	
• Is the inverter	UL 1741	/ IEEE 1547.1 Complian	ut?	
Yes□	No□			
• Is the inverter	certified j	per UL 1741-SA and co	mpliant with ISO-	NE's Inverter
Source Require	ements D	Occument (ISO-NE SRD))?	
Yes□	No□			
• Is the inverter	certified j	per UL 1741-SB and cor	npliant with ISO-	NE's Default IEEE 1547-2018
Setting Requir	ements?			
Yes□	No□			
If Yes to any of above to inverter's UL 1741/IE		lude documentation provide listing.	ed by the inverter m	anufacturer describing the
Battery Storage/I	Backup	<u>Information</u>		
Is this Battery an a	dd-on to	an existing customer-ger	nerator facility?	Yes □ No □
If Yes, exist	ing CPG	#:		
Is this Battery:	Batter	y (DC Coupled – No Ex	port) + Solar	Yes □ No □
	Battery	(AC Coupled - Export)	+ Solar	Yes □ No □
	Battery	Only (AC Coupled - Ex	port)	Yes □ No □
	Battery	Only (AC Coupled – No	o Export)	Yes □ No □
Will the battery sh	are an inv	verter with a Renewable	Energy system?	Yes □ No □
If Yes, can the bat	tery be cl	narged from the Electric	Utility electric di	stribution grid? Yes □ No □
If No, how is the b	attery Er	nergy Storage System pro	evented from bein	ng charged by the electric
distribution systen	n?			

<u> </u>	areu mverter m	normation (DC coup	ied inverters with multiple	sources)	
Qι	ıantity:				
Ba	ittery System M	lanufacturer:	Model:	Battery Type:	
Ba	ttery Charge/D	ischarge Rating (kW	AC):Batte	ry Energy Capacity (kWh):	
PF	Setting:		DC Source/Prime Mover	:	
Do	export control	s apply to this inver	ter? (Check one) Yes□	No□	
•	Is the inverter	UL 1741 / IEEE 15	47.1 Compliant?		
	Yes□	No□			
•	Is the inverter	certified per UL 174	41-SA and compliant with	ISO-NE's Inverter Source	
	Requirements	Document (ISO-NI	E SRD)?		
	Yes□	No□			
•	Is the inverter	certified per UL 174	41-SB and compliant with	ISO-NE's Default IEEE 1547-2018	
	Setting Requir	rements?			
	Yes□	No□			
If Yes to any of above bullets, include documentation provided by the inverter manufacturer describing the inverter's UL 1741/IEEE 1547.1 listing.					
			ers with only batteries for l	DC source)	
		[anufacturer:	Model	Battery Type:	
				ry Energy Capacity (kWh):	
				:	
			ter? (Check one) Yes \Box		
			47.1 Compliant?		
	Yes \square	No□	+7.1 Compilant.		
			11-SA and compliant with	ISO-NE's Inverter Source	
• Is the inverter certified per UL 1741-SA and compliant with ISO-NE's Inverter Source Requirements Document (ISO-NE SRD)?					
	Yes□	No□	Z SKD).		
_			11 CD and accompliant with	SICO NE's Default IEEE 1547 2010	
•	Setting Requir	-	+1-3D and compnant with	ISO-NE's Default IEEE 1547-2018	
	Yes□	No□			

If Yes to any of above bullets, include documentation provided by the inverter manufacturer describing the inverter's UL 1741/IEEE 1547.1 listing.

Battery Intended Use and Operation

Please provide a sequence of operations explaining how the system will operate under normal and off-grid conditions (explain how the battery will disconnect and reconnect to the grid). Please provide the type of switching and indicate if it is self-contained or utilizes separate components. An example would be self-contained device with DC to AC inverter, battery charger, and integrated AC transfer switch. On your one-line diagram please label the various equipment (inverter(s), charge controllers, switches, etc.) so that your written operational equipment discussion matches the one-line diagram. If your system rated kW outflow to the grid is restricted by control logic (outflow kW is less than inverter total capacity), then indicate the worst case outflow capacity.

<u>Limited-Export / Non-Export / Limited-Import Data</u>
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If multiple export control systems are used, provide for each control system and use additional sheets if needed.				
Is export controlled to less than the Total Aggregate Nameplate Rating? Yes \square No \square				
Method of export limitation:				
□ Power Control System □ Reverse Power Protection				
☐ Minimum Power Protection ☐ Other (describe):				
Export controls are applied to how many generators? Multiple One				
If Power Control System is used, open loop response time:(s)				
Power Control System output limit setting: (kW)(kVA)				
Energy Storage System Power Control System operating mode:				
☐ Unrestricted ☐ Export Only ☐ Import Only ☐ No Exchange				
Describe which Generators the export control system controls:				

3. Applicant Signature (may be electronic)

Application is true and correct.				
Signed:				
Title:				
Date:				
Operation is contingent on Utility approval to interconne	of the Project and receipt of all other			

I hereby certify that, to the best of my knowledge, all the information provided in this Interconnection

Operation is contingent on Utility approval to interconnect the Project and receipt of all other required regulatory approvals.