Tier III Interconnection Application

This form is for Distributed Energy Resources (DERs) that meets the eligibility of a Tier III track.

The Interconnection Application is to be filled out completely by the applicant or as noted in each section of the application. Section that are noted with * are required to be filled out along with bolded items.

Checklist for Submission to Area EPS Operator	
The items below shall be included with submittal of the Interconnection Applicatio Operator. Failure to include all items will deem the Interconnection Applicatio	
	Included
Non-Refundable Processing Fee	☐ Yes
One-line diagram • Please see Area EPS Operator's Technical Requirement for more details.	☐ Yes
Site Diagram showing DER system layout (See Technical Requirements for more details)	☐ Yes
Possible Additional Documentation (See Technical Requirements for more details)	
 If requesting the DER export capacity to be limited, include information matellimiting capabilities. 	erial explaining the
 Schematic drawings for all protection and control circuits, relay current circuits, and alarm/monitoring circuits (if applicable). 	uits, relay potential
 Documentation that describes and details the operation of protection and coapplicable). 	ontrol schemes (if
 Inverter Specification Sheet(s) (if applicable). 	

Interconnection Customer/Owner *			
Full Name (match name of electric service account, if applicable):			
Account Nu	mber:	Meter Number	:
Mailing Add	ress:		
Email:			Phone:
• •	on Agent *		
	mer using an Application Agent for this ap	•	☐ Yes ☐ No
	nterconnection Customer is not using an A	pplicant Agent, pl	ease continue to next section.
Application	-		
Company Na Email:	ame:		Dhana
Emaii:			Phone:
DER Loca	ition *		
Is the propo	sed DER system to be located at the Inter	connection Custo	mer's mailing address: 🗆 Yes 🗆 No
	If Yes, please contin	ue to the next sec	tion.
If No. will th	e proposed DER system be interconnected	to an existing ele	ctric service?
· ·	provide the address or GPS coordinates:		<u> </u>
If not an exi	sting service, please state the proposed ser	rvice entrance size	e (amps):
General	*		
Choose one	of the following and provide applicable d	ata:	
□ Арр	olication is for a new DER		
Agg	gregate DER nameplate rating of all genera	tion and storage t	types (kW AC):
☐ App	olication is for a Capacity Addition to an exi	sting DER	
Сара	acity of existing DER (kW AC):	Capacity prop	osed to be added (kW AC):
□ Арр	olication is for a Material Modification to ar	n existing DER	
	Naterial Modification to existing facility, ple		
	,		
	Energy Resource will be used for what rea	-	
	upply power to Interconnection Customer a power to the Interconnection Customer a		To only supply power to the Area EPS
Type of Gen	erator (check all that apply):	Inverter	☐ Induction or Synchronous

Distributed Energy Resource Information *				
Phase configuration of Distributed Energy Resource(s): ☐ Single-Phase ☐ Three-Phase				
DER T	ype (Check all that a	oply and list aggregate c	apacity of each type):	
☐ Sol	lar Photovoltaics	Size (kW AC):	☐ Wind	Size (kW AC):
☐ Sto	orage	Size (kW AC):	☐ Diesel	Size (kW AC):
□ Na	tural Gas	Size (kW AC):	☐ Fuel Oil	Size (kW AC):
□ Ну	dro Type	Size (kW AC):	☐ Other	Size (kW AC):
Please	e specify other:			
Ехро	ort Capacity Lim	itation *		
Is the	Maximum Physical E	xport Capacity request t	he same as the name	plate capacity: ☐ Yes ☐ No
		If Yes, please con	tinue to the next secti	on.
If No,	what is the Maximum	n Physical Export Capacit	y Requested (<i>kW_{ac}</i>):	
	Export Capacity Limit g of adjustment?):		of a control system, po	ower relay(s), or other similar devices
	If Yes, please att	ach detailed information	describing the method	d of limiting export capacity.
Into	rconnection Fac	rilities Information	n *	
Interconnection Facilities Information * What type of DER Interconnection/Transfer Method is Proposed?				
vviiat	type of DER intercol	meetion, mansier wethe	a is Froposea:	
□ None (DER is never operating parallel with the distribution system)				
☐ Extended Parallel/Continuous (The normal state of the DER is to operate parallel with the distribution system.)				
☐ Limited (DER operated parallel with the distribution system for a short time). Please specify what type of Limited.				
☐ Quick Closed (100 msec parallel or less) ☐ Limited Parallel (2 minutes or less)				
Will a	transfer switch be u	sed with the DER? 🗆 Y	es 🗆 No	
Manu	ıfacturer:	Model:		Load Rating (in Amps):
		by the Interconnection Point of Common Coupli		☐ Yes ☐ No
	Please show proposed location of protective interface equipment on property on the submitted site diagram.			

Transformer Data (For Interconnection Customer-Owned Transformer) (if applicable) (Ex. Transformers used for secondary voltage conversion or primary metered interconnections)					
What is the phase configuration of the transformer?			☐ Sing	☐ Single Phase ☐ Three Phase	
Size (kVA):			Transformer Impedance On kVA (%):		Base:
Transformer Volts: (Primary)	Delta:		Wye:		Wye Grounded:
Transformer Volts: (Secondary)	Delta:		Wye:		Wye Grounded:
Transformer Volts: (Tertiary)	Delta:		Wye:		Wye Grounded:
Transformer Fuse Data (F	or Intercon	nection Cu	ustomer-Owned Fuse)		
Manufacturer:	Type:		Size:		Speed:
Interconnecting Circuit Breaker (For Interconnection Customer-Owned Circuit Breaker) (if applicable)					
Manufacturer:			Туре:		
Load Rating (in Amps):		Interrupting Rating (In Amps):		Trip Speed (Cycles):	
Interconnection Protective Relays: Please show protective relay manufacturer, model and type on					
the one-line diagram.					
Current and Potential Transformer Data: Please show CT ratios and CT/PT locations on one-line					

Fill out all following sections which pertain to the proposed DER installation

Inverter Interconnected System Information – non ESS (if applicable)			
Aggregate Inverter Rating (kW AC):	Number of Total Inverters:		
Phase configuration of inverter(s): ☐ Single-P	hase Three-Phase		
Voltage of Inverter(s):			
Inverter Manufacturer:			
1. Model No.	Certification		
	☐ UL 1741 ☐ UL 1741-SA ☐ UL 1741-SB		
Inverter Rating (kW AC):	Number of Units of this Model:		
2. Model No.	Certification		
	☐ UL 1741 ☐ UL 1741-SA ☐ UL 1741-SB		
Inverter Rating (kW AC):	Number of Units of this Model:		
3. Model No.	Certification		
	☐ UL 1741 ☐ UL 1741-SA ☐ UL 1741-SB		
Inverter Rating (kW AC):	Number of Units of this Model:		
4. Model No.	Certification		
	□ UL 1741 □ UL 1741-SA □ UL 1741-SB		
Inverter Rating (kW AC):	Number of Units of this Model:		

Energy Storage System Information (if applicable)				
ESS Inverter Energy Rating (kWh AC):	ESS Inverter Capacity Rating (kW AC):			
How will the ESS be used? Select all Use Cases that apply. ☐ Outage Protection/Backup Power ☐ Demand Re ☐ Time-of-Use Energy Management ☐ Increased S	duction ☐ No Export elf-Consumption ☐ Other			
Please specify other:				
What Operating Modes will be used? Select only one Ope ☐ Import Only ☐ Export Only ☐ N If Export Only is Checked, select all that apply.	rating Mode. Io Exchange			
☐ ESS Export is Allowed ☐ Solar Export is Allow ☐ Limited Export is Allowed (please specify export limit a	mount in kW):			
Is the ESS recharging limited to certain times of the day and/or after a power outage? ☐ Yes ☐ No If Yes, please explain:				
If the ESS shares an inverter that is listed in the previo	ous section, please skip the rest of this section.			
Aggregate ESS Inverter Rating (kW AC):	Number of Total ESS Inverters:			
Phase configuration of ESS inverter(s): ☐ Sing	gle-Phase Three-Phase			
Voltage of ESS Inverter(s):				
ESS Inverter Manufacturer:				
1. Model No.	Certification□ UL 1741□ UL 1741-SA□ UL 1741-SB			
Inverter Rating (kW AC):	Number of Units of this Model:			
2. Model No.	Certification ☐ UL 1741 ☐ UL 1741-SA ☐ UL 1741-SB			
Inverter Rating (kW AC):	Number of Units of this Model:			
3. Model No.	Certification ☐ UL 1741 ☐ UL 1741-SA ☐ UL 1741-SB			
Inverter Rating (kW AC):	Number of Units of this Model:			
4. Model No.	Certification ☐ UL 1741 ☐ UL 1741-SA ☐ UL 1741-SB			
Inverter Rating (kW AC):	Number of Units of this Model:			

Rotating Generation System Infor	matio	n (if applicab	le)	
Prime Mover Information			,	
Please indicate the prime mover:				
☐ Microturbine ☐ Reciprocating Engine ☐	□ Hydro	☐ Wind	☐ Other (please s	pecify)
Generator type □ Induction □ Synchr	onous			
Manufacturer: Model	Name &	Number:	Version:	
Summer Name Plate Rating: kW	V_{ac}	Summer Name P	Plate Rating:	kW _{ac}
Winter Name Plate Rating: kV/	A _{ac}	Winter Name Pla	ate Rating:	kVA _{ac}
Rated Power Factor: Leading:		Lag	ging:	
RPM Frequency:	c Data (1	Neutral Ground		
RPM Frequency:		Neutral Ground	ing Resistor:	
Direct Axis Synchronous Reactance, X_d : Zero Sequence Reactance, X_0 :				
Direct Axis Transient Reactance, X'_d :		KVA Base:		
Direct Axis Subtransient Reactance, X_d'' :		Field Volts:		
Negative Sequence Reactance, X_2 :		Field Amperes:		
For Synchronous Generators 1 MW or larger, pexcitation system, governing system and power reliability council criteria. A PSS may be determined and acturer's block diagram may not be submitted.	r system nined to I	stabilizer (PSS) in	accordance with the	regional

Distributed Energy Resource Characteristic Data (for Induction machines)			
RPM Frequency:	Neutral Grounding Resistor:		
Motoring Power (kW):	Exciting Current:		
Heating Time Constant:	Temperature Rise:		
Rotor Resistance, R_r :	Frame Size:		
Stator Resistance, R_s :	Design Letter:		
Stator Reactance, X_s :	Reactive Power Required In Vars (No Load):		
Rotor Reactance, X_r :	Reactive Power Required In Vars (Full Load):		
Magnetizing Reactance, X_m :	Total Rotating Inertia, H:		
Short Circuit Reactance, $X_d^{\prime\prime}$:			

Additional Documentation

On the one-line diagram, show the interconnection transformer and provide the transformer winding configuration, primary and secondary transformer voltage, transformer protection information and expected impedance. Show how the transformer will be protected to meet the NEC requirements.

See the Area EPS Operator's Technical Requirement for required information that needs to be on the one-line and site diagram and for example application documentation.

See the Interconnection Process for additional requirements related to Site Control and insurance documentation.

Acknowledgements – Must be completed by Interconnection Customer *			
	Initials		
The Interconnection Customer has opportunities to request a timeline extension			
during the interconnection process. Failure by the Interconnection Customer to			
meet or request an extension for a timeline outlined in the Interconnection Process			
could result in a withdrawn queue position and the need to re-apply.			
The Interconnection Customer acknowledges that subtractive metering is not			
allowed for DER systems of the extended parallel type.			

Application Signature – Must be completed by Interconnection Custo	mer *
I designate the individual or company listed as my Application Agent to serve as my agent for the purpose of coordinating with the Area EPS Operator on my behalf throughout the interconnection process.	 Initials
I hereby certify that, to the best of my knowledge, the information provided in this Inter Application is true and correct and I have appropriate Site Control in conformance with Interconnection Process. I agree to abide by the Area EPS Operator's Interconnection Process. Technical Requirements.	the
Applicant Signature: Date:	
Please print clearly or type and return completed along with any additional docum	nentation