Tier II Interconnection Application

This form is for Distributed Energy Resources (DERs) that meets the eligibility of a Tier II track. This includes backup fossil fuel generation, standalone energy storage systems and electric vehicles designed to provide backup service to the residence.

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 Application to the Area EPS Operator. Failure to include all items will deem the Interconnection Application incomplete.

	Included
 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

Interconnection Customer/Owner *		
Full Name (match name of electric service account, if ap	oplicable):	
Account Number:	Meter Number:	
Mailing Address:		
Email:	Phone:	

Application Agent *			
Is the Customer using an Application Agent for this application?	🗆 Yes	🗆 No	
If Interconnection Customer is not using an Applicant Agent, please continue to next section.			
Application Agent:			
Company Name:			
Email:	Phone:		

If you have any questsions, please call Lucas Schaaf at 701-463-6715

DER Location *
Is the proposed DER system to be located at the Interconnection Customer's mailing address: Yes No
If Yes, please continue to the next section.
If No, will the proposed DER system be interconnected to an existing electric service? Yes No
Please provide the address or GPS coordinates:

If not an existing service, please state the proposed service entrance size (amps):

Distributed Energy Resource Information *				
Type of Generator (check all that apply):		rter	□ Induction or Synchronous	
Phase configuration of Distributed Energy Resource(s): Single-Phase Three-Phase				
DER Type (Check all that apply and list aggregate capacity of each type):				
Electric Vehicle	Size (kW AC):		□ Fuel Oil	Size (kW AC):
□ Battery Storage	Size (kW AC):		Diesel	Size (kW AC):
Natural Gas	Size (kW AC):		□ Other	Size (kW AC):
Please specify other:				

Interconnection Facilities Information *			
What type of DER Interconnection/	Fransfer Method is Proposed?		
None (DER is never operating 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 (100msec parallel or less) □ Limited Parallel (2 minutes or less)			
Will a transfer switch be used with the DER? Yes No			
Manufacturer:	Model:	Load Rating (in Amps):	
Will a transformer, owned by the Interconnection Customer, be used between the DER and the Point of Common Coupling?		🗆 Yes 🛛 No	
Please show proposed location of protective interface equipment on property on the submitted site diagram.			

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

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	•		
	elf-Consumption 🛛 Other		
Please specify other:			
What Operating Modes will be used? Select only one Operation	•		
	o Exchange 🛛 Unrestricted Exchanged		
If Export Only is Checked, select all that apply.	- 4		
 ESS Export is Allowed Solar Export is Allowed Limited Export is Allowed (please specify export limit a 			
Is the ESS recharging limited to certain times of the day ar	•		
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):			
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 Information (if applicable)				
Prime Mover Information				
Please indicate the prime mover:				
□ Microturbine □ Reciprocating Engine □ Hydro □ Wind □ Other (please specify)				
Generator type \Box Induction \Box	Synchronous			
Manufacturer:	Model Name 8	k Number:		Version:
Summer Name Plate Rating:	kW _{ac}	Summer Name P	late Rati	ng: kW _{ac}
Winter Name Plate Rating:	kVA _{ac}	Winter Name Pla	te Ratin	g: kVA _{ac}
Rated Power Factor: Leading:		Lag	ging:	
Distributed Energy Resource Chara	cteristic Data (for Synchronous	machir	nes)
RPM Frequency:		Neutral Groundi	ng Resis	tor:
Direct Axis Synchronous Reactance, X_d	:	Zero Sequence R	Reactanc	e, 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				-
excitation system, governing system ar reliability council criteria. A PSS may be manufacturer's block diagram may not	e determined to			-
Distributed Energy Resource Characteristic Data (for Induction machines)				
RPM Frequency:		Neutral Groundi	ng Resis	tor:
Motoring Power (kW):		Exciting Current:	:	
Heating Time Constant:		Temperature Ris	se:	
Rotor Resistance, <i>R</i> _r :		Frame Size:		
Stator Resistance, R _s :		Design Letter:		
Stator Reactance, X _s :		Reactive Power	Required	d 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 :				

Electric Vehicle System Information (if applicable)		
Can the Electric Vehicle provide backup power to the electrical service? Yes No		
If Yes, please fill out the transfer switch info	ormation section under Interconnection Facilities Information	
Number of Chargers:	Are All Charges Identical: Yes No N/A	
If Y	Yes, please only fill out the first section of EV Charger information	
1. EV Charger Manufacturer:		
Model No.:	Charger Total Power (kW AC):	
Phase configuration of Charger:	□ Single-Phase □ Three-Phase	
EV Charger Level: Level 1	Level 2 Level 3 (DC Fast Charging)	
Voltage of Charger: □ 120 V □	208 V 240 V Other - Please List:	
Charger Amps (A):	Circuit Amps (A):	
2. EV Charger Manufacturer:		
Model No.:	Charger Total Power (kW AC):	
Phase configuration of Charger:	□ Single-Phase □ Three-Phase	
EV Charger Level : Level 1	Level 2 Level 3 (DC Fast Charging)	
Voltage of Charger:□120 V□	208 V 240 V Other - Please List:	
Charger Amps (A):	Circuit Amps (A):	
3. EV Charger Manufacturer:		
Model No.:	Charger Total Power (kW AC):	
Phase configuration of Charger:	□ Single-Phase □ Three-Phase	
EV Charger Level : Level 1	Level 2 Level 3 (DC Fast Charging)	
Voltage of Charger:□120 V□	208 V 240 V Other - Please List:	
Charger Amps (A):	Circuit Amps (A):	

Application Signature – Must be completed by Interconnection Customer *

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 Interconnection Application is true and correct. I agree to abide by the Area EPS Operator's Interconnection Process and Technical Requirements.

Applicant S	Signature:
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Date: