Interconnection Application

Persons interested in applying for the interconnection of a distributed energy resource to the Utility's distribution system through the Fast Track or Study Processes are to fill out this Interconnection Application. The Interconnection Application is to be filled out completely by the applicant or as noted in each section of the application. The Utility will contact the applicant within 10 business days once the Interconnection Application and the corresponding processing fee is submitted to the Utility. The Utility will then notify the applicant of the completeness of their application. If the application is deemed incomplete by the Utility, the Utility will provide the applicant with a list of missing material. The applicant will then have 10 business days to provide the Utility with this information or request an extension, otherwise the application will be deemed incomplete and the applicant will lose their place in the queue. Section that are noted with * are required to be filled out.

Checklist for Submission to Utility							
The items below shall be included with submittal of the Interconnection Application to the Utility.							
Failure to include all items will deem the Interconnection Application incomplete.							
	Included						
	iliciuded						
Non-Refundable Processing Fee							
Fast Track							
• \$100 + \$1/kW for Certified Systems	☐ Yes						
 \$100 + \$2/kW for Non-Certified Systems 	65						
Study Process							
 \$1,000 + \$2/kW down payment. Additional study fees may apply. 							
One-line diagram							
 This one-line diagram must be signed and stamped by a Professional 							
Engineer licensed in Minnesota if the DER is uncertified greater than 20 kW	☐ Yes						
AC or if certified system is over 250 kW.	⊔ Yes						
 Details required on one-line diagram specified at the end of the 							
interconnection application.							
Schematic drawings for all protection and control circuits, relay current circuits,	Пусс						
relay potential circuits, and alarm/monitoring circuits	☐ Yes						
Inverter Specification Sheet(s) (if applicable)	☐ Yes						
Documentation that describes and details the operation of protection and control	☐ Yes						
schemes	<u> </u>						
Documentation showing site control	☐ Yes						
Aerial map showing DER system layout including major roadways and true north	☐ Yes						
Possible Additional Documentation							
If the DER export capacity is limited, include information material explaining	the limiting						
capabilities.	J						
 If Energy Storage is included with the proposed DER system include the Energy Storage 							
Application.	<i>5, 5</i>						
• •							

General *				
Select Review Proce	ess:	rocess	☐ Study Pi	rocess
Application is for:	☐ New Distribution Energy Resource		pacity Addition or M Existing Distributed	Naterial Modification d Energy Resource
If Capacity Addition	or Material Modification to exi	sting facili	ty, please describe:	
Distributed Energy I	Resource will be used for what i	reason? ((`heck all that annly):	,
Distributed Energy i	tesource will be used for what	reason. (e	sneek an that apply).	•
☐ Net Metering	☐ Supply Po	wer to Int	erconnection Custo	mer
☐ Supply Power to	Area EPS			
Installed DER Syster	n Cost (before incentives):		\$	
Interconnection	Customer *			
Full Name (must ma	tch the name of the existing se	rvice acco	ount):	
Account Number:		Meter N	umber:	
Mailing Address:				
			T	1
City:			State:	Zip Code:
Email:			Phone:	

^{*} Indicates section must be completed.

Application Age	nt *							
Is the Customer using an Application Agent for this application?						No		
If Interconnection	on Customer is not	using an Apբ	olication Agent,	please s	kip to	the ne	xt sec	tion.
Application Agent:								
Company Name:								
Email:				Phone:				
Distributed Ener	rgy Resource In	nformatio	า *					
Estimated Installatio	n Date:							
Location (if different	from mailing add	ress of Interc	onnection Custo	omer):				
Will the Proposed DE	ER system be inter	connected to	an existing elec	ctric ser	vice?		'es	□ No
Is the Distributed End	ergy Resource a si	ngle generati	ng unit or multi	ple?	□s	ingle		/lultiple
DER Type (Check all t	that apply):							
☐ Solar Photovoltaio		☐ Wind				nergy	Storag	şe
☐ Combined Heat ar	nd Power	☐ Solar	Thermal			other (please	specify)
•	Energy Storage m			torage A	Applica	ation to	o the L	Jtility.
Total Number of Dist interconnected pursi	= -							
Phase configuration		<u> </u>		☐ Si	ngle P	hase	☐ Thr	ee Phase
Type of Generator:								
Aggregate DER Capacity (the sum of nameplate capacity of all generation and storage devices at the PCC):								
		kWac						kVA _{ac}

^{*} Indicates section must be completed.

Export Capacity Limitation *						
Is the export capability of the DER limited?	☐ Yes ☐ No					
If the DER export capacity is limited, complete the following sections and include information mate explaining the limiting capabilities.						
Maximum Physical Export Capacity Requested:						
If Yes, please provide additional details describing method of export limitat	tion:					
Load Information *						
Interconnection Customer's or Customer-sited Load:	kW _{ac}					
Typical Reactive Load (if known):						
Equipment Certification *						
Is the DER equipment certified?	s □ No					
Please list all IEEE 1547 certified equipment below. Include all certified equipment manufacturer specification sheets with the Interconnection Application submission.						
	ying Entity					
3						
4						

^{*} Indicates section must be completed.

Prime Mover *							
Please indicate the prim	e mover:						
☐ Solar Photovoltaic		☐ Microturb	ine	□ Fu	uel Cell		
☐ Reciprocating Engine		☐ Gas Turbir	ne	□ Ot	ther (ple	ease specify	y)
Is the prime mover com	patible with	certified prote	ection equip	ment packag	ge?	□ Yes	□ No
DER Manufacturer:		Model Name	& Number:		Versio	on:	
List of Adjustable Set Points for Protection Equipment or Software:							
Summer Name Plate Rating: kW_{ac} Summer Name Plate				ame Plate R	ating:		kW _{ac}
Winter Name Plate Ratio	Winter Name Plate Rating: kVA _{ac} Winter Name Pla			ne Plate Ra	late Rating: kVA _{ac}		
Rated Power Factor:	Leading:	ling: Laggir			ging:		
A completed Powe	r System Loo		heet must be cation.	supplied w	ith the I	Interconnec	ction
Only appropriate	sections be	yond this point	until the sig	nature page	are to	be complet	ted.
Distributed Energy Re	source Cha	racteristic Da	ata (for Inve	erter-based	l machi	ines)	
Max design fault contrib	oution curre	nt:					
Is your response to the previous field an Instantaneous or RMS measurement?			,	☐ Instantaneous ☐ RMS			
Harmonic Characteristic	cs:						
Start-up Requirements:							

^{*} Indicates section must be completed.

Distributed Energy Resource Characteristic Data (for Synchronous machines)						
RPM Frequency:	Neutral Grounding 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:					

Please provide the appropriate IEEE model block diagram of excitation system, governing 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 submitted.

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, $X_d^{\prime\prime}$:						

Interconnection Fa	cilities I	Information						
Will a transformer be used between the DER and the Point of Common Coupling?						□ Yes	□No	
Will the transformer be provided by the Interconnection Customer? If yes, please fill in the fields below.					I	□ Yes	□No	
Proposed location of pro	otective ir	nterface equipme	nt on ¡	oroperty:				
Transformer Data (For Ir	nterconne	ection Customer-C	Owned	Transforme	er)			
What is the phase config	guration c	of the transformer	·?		☐ Single	e Phase	☐ Three Phase	
Size (kVA):		Transformer Imp	oedan	ce (%):	On kVA	Base:		
Transformer Volts: (Primary)	Delta:		Wye	:		Wye Gr	ounded:	
Transformer Volts: (Secondary)	Delta:		Wye	:		Wye Grounded:		
Transformer Volts: (Tertiary)	Delta:		Wye	:		Wye Gr	Wye Grounded:	
Transformer Fuse Data (For Interd	connection Custo	mer-O	wned Fuse)				
Manufacturer:	Type:	Size:			Speed:			
Interconnecting Circuit E	Breaker (F	or Interconnection	n Cus	tomer-Owne	ed Circuit	Breaker)	
Manufacturer:			Туре	:				
Load Rating (in Amps):		Interrupting Rat	ing (In	Amps):	Trip Speed (Cycles):			
Interconnection Protecti	ive Relays	(For Microproce	ssor Co	ontrolled Re	lays)			
Setpoint Function Min		Minir	imum Maximum					

	5 *******	Discrete Compone	ents)			
Type:	Туре:		.:	Proposed Setting:		
Туре:		Style/Catalog No.:		Proposed Setting:		
Туре:		Style/Catalog No.:		Proposed Setting:		
Туре:	Type:		.:	Proposed Setting:		
Type:	Гуре:		.:	Proposed Setting:		
ata:						
Type:	Accuracy		Propos	ed Ratio Connection:		
Туре:	Accur	acy Class:	Propos	ed Ratio Connection:		
Potential Transformer Data:						
Type:	Accur	acy Class:	Propos	ed Ratio Connection:		
Туре:	Accuracy Class:		Propos	ed Ratio Connection:		
	Type: Type: Type: Type: Type: Type: Type: Type: Type: Type: Type: Type:	Type: Type: Type: Type: Accur Type: Accur Type: Accur	Type: Style/Catalog No Type: Style/Catalog No Type: Style/Catalog No Type: Style/Catalog No Style/Catalog No Accuracy Class: Type: Accuracy Class: Type: Accuracy Class: Type: Accuracy Class:	Type: Style/Catalog No.: Type: Style/Catalog No.: Type: Style/Catalog No.: Type: Style/Catalog No.: Style/Catalog No.: Accuracy Class: Propos Type: Accuracy Class: Propos Data: Type: Accuracy Class: Propos		

For Office Use Only			
Application ID:			
Date Received:	Application Fee Received:	☐ Yes	□ No
Date Completed:			

Interconnection Agreement *			
Proposed DER interconnections that are also deemed Qualifying Facilities less than Minnesota Statutes §216B.164 are eligible to sign the Utility's Uniform Contract for Small Power Production Facilities. Included in this agreement are payment terms for generated by the proposed DER system the Utility may purchase. In lieu of the Utility Contract for Cogeneration and Small Power Production Facilities, the Interconnection choose to instead sign the Municipal Minnesota Interconnection Agreement (MMIA)	r Coger or exce ty's Un on Cust	nerat ess po iforn	tion and ower n
The Interconnection Customer requests an MMIA to be executed in lieu of the Utility's Uniform Contract for Cogeneration and Small Power Production Facilities.	□ Ye	S	□No
Disclaimers – Must be completed by Interconnection Customer *			
		 Ini	tials
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 Proces	S		
could result in a withdrawn queue position and the need to re-apply.	\bot		
Propose DER interconnection to the Utility's distribution submitted under the Fast			
Track Process may be moved into the Study Process if engineering screens are failed	;d		
during the Interconnection Application review.			
Application Signature – Must be completed by Interconnection Co	uston	ner	*
I designate the individual or company listed as my Application Agent to serve as my	y		
agent for the purpose of coordinating with the Area EPS Operators on my behalf throughout the interconnection process.	_		
throughout the interconnection process.		Ini	tials
I hereby certify that, to the best of my knowledge, the information provided in this and that I have appropriate Site Control in conformance with the Interconnection I abide by the Municipal Minnesota Distributed Energy Resource Interconnection Pr	Process	s. I a	gree to
abide by the Maineipal Minnesota Distributed Lifeigy nesource interconnection Fi	occas (,141-14	iii j allu

Please print clearly or type and return completed along with any additional documentation

will inform the Utility if the proposed DER system changes from the details listed in this

Applicant Signature:

Interconnection Application.

Date:

Information Required on One-Line Diagram

An Interconnection Application must include a site electrical one-line diagram showing the configuration of all Distributed Energy Resource equipment, current and potential circuits, and protection and control schemes. The one-line diagram shall include:

- Applicant name.
- Application ID.
- Installer name and contact information.
- Address where DER system will be installed must match application address.
 - O Be sure to list the address for the protective interface equipment if the protective interface equipment is located at a different address than the DER system.
- Correct positions of all equipment, including but not limited to panels, inverter, and DC/AC disconnect. Include distances between equipment, and any labeling found on equipment.

This one-line diagram must be signed and stamped by a Minnesota licensed Professional Engineer if the Distributed Energy Resource is larger than 20 kW (if uncertified) and 250 kW (if certified.)