## LEVEL 2-4 INTERCONNECTION REQUEST APPLICATION FORM (For Distributed Generation Facilities 10 MVA or less)

## **INSTRUCTIONS:**

- 1. \*Indicates required information.
- 2. Mail completed form with application fee (see page 2) to Franklin Rural Electric Cooperative.

INTE	RCON	NECTION ME (Applicat		CONSU				NFOR	MATION			
*Owner / Company (Legal Entit	ty Name)				* C	Contact N	lame					
* Mailing Address					City *State *Zip							
* Phone No. (Daytime) Phone No. (Evening) Facsimile No.						* Email Address						
ALTERNATE CONTACT INFORMATION (If different from Member-Consumer Contact Information)												
Owner / Company (Legal Entity	/ Name)				Co	ntact Na	me					
Mailing Address				City	1				*State	*Zip		
Phone No. (Daytime)	hone No. (Daytime) Phone No. (Evening) Fac						Email Add	dress		<b>-</b>		
	FAC	ILITY LOCAT	TION (If	different	t fro	m info	rmation a	above	)			
* Facility Address or Latitude ar	nd Longitu	de		* City					*State	*Zip		
* Cooperative serving Facility S	* Cooperative serving Facility Site				ing m	ember-c	onsumers)	Mete	r No. (existing	member-consumers)		
		EQ	UIPMEN	NT CON	TRA	CTOF	₹					
* Company Name					* C	Contact N	lame					
* Mailing Address				* City	<u> </u>				*State	*Zip		
* Phone No. (Daytime)	Phone N	lo. <i>(Evening)</i>	Facsin	nile No.	* Email Address							
EL	ECTRIC	CAL CONTRA	CTOR	(If differe	ent f	from E	quipmen	t Con	tractor)			
*Owner / Company Name					* C	Contact N	lame					
* Mailing Address				* City					*State	*Zip		
* Phone No. (Daytime) Phone No. (Evening) Facsimil					e No. * Email Address							
License No. (If applicable)					Active License? (If applicable)  Yes No							
APPLICANT OWNERSHIP INTEREST (check one)												
Owner Lease	3rd P	arty PPA 🔲	Other (F	Please Ex	plair	n)						
THIRD PARTY INFORMATION  (Only complete this section if the facility is to be located on the premise of someone other than the applicant)												
Location of Proposed Facility					Name of Customer at said location							

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* Mailing Address					* City					
* Phone N	No. (Daytime)	o. (Evening)				te	*Zip			
ELECTRIC SERVICE INFORMATION FOR MEMBER-CONSUMER FACILITY WHERE GENERATOR WILL  BE INTERCONNECTED										
*Capacity	(Service Entrance): (Amps)	* Type of Service  Single Phase  Three-Phase								
* If three-	phase transformer, indicate	* Transformer Size				*Impedan				
	Vinding: Wye Del	• •	Delta							
		* INTENT OF CE	NEDATI	ON (obo	ok onol					
	Offset Load (Unit will oper	* INTENT OF GE ate in parallel, but will not export p					ted. the	e Cooperati	ve will not	
		e generation facility output and A						, осорога.		
		Cooperative (Unit will operate in preparate power purchase agreem					er to C	ooperative	pursuant to the	
	separate requirements an	ction (Unit will operate in parallel and agreements with MISO, SPP, or								
	Regulatory Commission)  Back-up Generation (Units that temporarily operate in parallel with the electric distribution system for more than 100 milliseconds)  (Note: Back-up units that do not operate in parallel for more than 100 milliseconds do not need an interconnection agreement.)									
	Sale of generation output to Member-Consumer upon whose premise the facility is located and export and sell any excess power to the Cooperative, which sales may require a separate point of interconnection, metering, and power purchase agreement.								s power to the	
Other: (Please Explain):										
*GENERATOR AND PRIME MOVER INFORMATION										
Energy Source										
☐ Wind	☐ Wind ☐ Solar ☐ Process Byproduct ☐ Biomass ☐ Hydro ☐ Oil ☐ Natural Gas ☐ Coal ☐ Other									
If Solar:		Number of Panels  Single Axis Dual Axi	·	egrees)	·	Azimuth (	180° is	South facir	ng)	
Energy C	onverter Type									
	Turbine	ic Cell ☐ Fuel Cell ☐ F	Reciprocat	ina Enaine	e ∏ Ot	her				
		nerator #1 Nameplate Rating (AC	-				enerator #2 Nameplate Rating (AC):			
	(kW) (kVA)	(kW)	·	(kW) (kVA)			(kW)			
Generato	r #3 Size: Ge	nerator #3 Nameplate Rating (AC	:): Total	Number of Units: Total Ca			Capacity of All Generators:			
	(kW) (kVA)	(kW)					(kW) (kVA)			
Disconne	ction Device: Identify type a	nd location of disconnection devi	ce:							
Is the generation facility a qualifying facility as defined under Public Utilities Regulatory Policy Act (18 CFR Part 292, Subpart B)?										
☐ Yes ☐ No										
* REQ	UESTED PROCEDI	JRE UNDER WHICH TO	EVALU	ATE INT	[ERCO	NNECT	ION I	REQUE	ST <i>(check one)</i>	
Please in Cooperat		rocedure applies to the interconne	ection reque	st. The revi	ew proced	ure used is	s subje	ct to confire	nation by the	
	is defined in Iowa Utilities	rconnection equipment with an ag Board Chapter 45 rules on Electri	c Interconn	ection of Dis	stributed G	eneration	Facilitie			
	(Application fee is \$250 plus \$1.00 per kVA and an additional \$125 if Cooperative performs a witness test.)  Level 3 - Distributed generation facility does not export power. Nameplate capacity rating is less than or equal to 50 kVA if connecting to area network or less than 150 kVA if connecting to a radial distribution feeder. (Application fee amount is \$500 plus \$2.00 per kVA.)									

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	Level 2, or Le	vel 3 review	, or the c	distrib	uted (	an or equal to 10 M generation facility h s \$2.00 per kVA, to	as bee	n reviewed	but no	ot approved und	er a Level 1, Leve	el 2, or Level 3
		erconnectio	n review			do not list all criter						
			DISTR	IBU	TEC	GENERATIO	N FA	ACILITY	INF	ORMATION		
consumer		e: e Cooperativ	ve as so	on as	it is a	ware of the change	If the C	Commissioni e. Notice mu	ng Te	est Date change at least 15 busi	s, the interconnec	
	<u> </u>	onents/syst	ems to b	e use	ed in t	he distributed gene		•		b-certified. I and Listing		
Compone	ent/System						INKT	L Providing	Labe	rand Listing		
Please pro	ovide copies of	the manufac	cturer bro	ochur	es or	technical specificat	ions.					
		*ENEF	RGY P	ROI	DUC	TION EQUIP	MEN	T/INVER	TER	RINFORMA	TION	
☐ Induction ☐ Inverter ☐ Synchronous ☐ Other												
Rating			Rating				*Rate	ed Voltage			* Rated Current	
		_ (kW)				(kVA)				Volts		Amps
* System Type Tested? (Total System):  Yes  No (attach product literature)												
				*	*FO	R SYNCHROI	NOU:	S MACH	INE	 S		
Note: Cor	ntact Cooperati	ve to determ	ine if all			R SYNCHROI					distributed genera	ition facility.
Note: Cor		ve to determ	ine if all								distributed genera	ition facility.
	ırer:	ve to determ	ine if all	the in	nform				red fo	or the proposed	<del>-</del>	rve and Vee Curve
Manufactu	o:	ve to determ		the in	nform	ation requested in t			red fo	or the proposed	he Saturation Cui	
* Model No	o:			the in	* Ver	sion No.  Field Amperes at rat	his sec	ction is requi	Su Su ge ar	ubmit Copies of Salient	he Saturation Cui Non-Salient % F	rve and Vee Curve
* Model No	o:			the in	* Ver	sion No. Field Amperes	his sec	ction is requi	Su Su ge ar	ubmit Copies of	he Saturation Cui Non-Salient % F	rve and Vee Curve
* Model No Torque (lb	o:	Rated RPN		the in	* Ver	sion No.  Field Amperes at rat	his sec	tion is requi	Su Suge ar	ubmit Copies of Salient	he Saturation Cui Non-Salient % F	rve and Vee Curve PF over-excited
* Model No Torque (lb Type of Ex	o: o-ft)	Rated RPN		the in	* Ver	sion No.  Field Amperes at raut Power of Exciter  bus Speed (RPM)	his sec	tion is requi	Su Suge ar	ubmit Copies of Salient  d current and rpe of voltage re	he Saturation Cui Non-Salient  % F gulator  Minimum Ope Frequency/Tin	rve and Vee Curve PF over-excited
* Model No Torque (lb Type of Ex Locked Ro Generator	o: o-ft) xciter	Rated RPMnps)	vi	Sync	* Ver	sion No.  Field Amperes at raiut Power of Exciter	ted ger	nerator volta	Su Suge ar	ubmit Copies of Salient  d current and rpe of voltage re	he Saturation Cui Non-Salient  % F gulator  Minimum Ope Frequency/Tin	PF over-excited
* Model No Torque (lb Type of Ex Locked Ro Generator	o: o-ft) xciter otor Current (Ar	Rated RPMnps)	vi	Sync	* Ver	sion No.  Field Amperes at ra ut Power of Exciter  bus Speed (RPM)	ted ger	nerator volta	Su Suge ar	ubmit Copies of Salient  d current and rpe of voltage re	he Saturation Cur Non-Salient  % Figulator  Minimum Ope Frequency/Tin Wye Go-Transient React	PF over-excited
* Model No Torque (lb Type of Ex Locked Ro Generator Direct-axis	o: o-ft) xciter otor Current (Ar	Rated RPN nps) Delta Reactance ( (ohms)	vi	Sync	* Ver	sion No.  Field Amperes at ra ut Power of Exciter  bus Speed (RPM)	ted ger	nerator volta Wince (X'd)	Su Suge ar	ubmit Copies of Salient  d current and rpe of voltage re  Connection  Direct-axis Su	he Saturation Cur Non-Salient  % F gulator  Minimum Ope Frequency/Tin Wye G o-Transient React	PF over-excited  Prating me  Arounded tance (X'd)
* Model No Torque (lb Type of Ex Locked Ro Generator Direct-axis	o: o-ft)  xciter otor Current (Ar Connection	Rated RPN nps) Delta Reactance ( (ohms)	vi	Sync	* Ver	sion No.  Field Amperesat raiut Power of Exciter  ous Speed (RPM)W	ted ger	nerator volta Wince (X'd)	Su Suge ar	ubmit Copies of Salient  d current and rpe of voltage re  Connection  Direct-axis Su	he Saturation Cur Non-Salient  % F gulator  Minimum Ope Frequency/Tin  Wye G p-Transient React	PF over-excited  Practing me  Arounded tance (X'd) (ohms)
* Model No Torque (lb Type of Ex Locked Ro Generator Direct-axis	o: o-ft)  xciter otor Current (Ar Connection	Rated RPM  nps)  Delta Reactance ( (ohms)	vi	Sync	* Ver Outp  Direct Zero	sion No.  Field Amperesat radut Power of Exciter ous Speed (RPM)W ct-axis Transient Re	ted ger	nerator volta Wince (X'd) (ohms)	ge ar Ty	ubmit Copies of Salient  d current and rpe of voltage re  Connection  Direct-axis Su	he Saturation Cur Non-Salient  % F gulator  Minimum Ope Frequency/Tin  Wye G p-Transient React	PF over-excited  Prating me  Grounded tance (X'd) (ohms) g Resister (if any)
* Model No Torque (lb Type of Ex Locked Ro Generator Direct-axis	o: o-ft) xciter otor Current (Ar Connection s Synchronous	Rated RPM  nps)  Delta Reactance ( (ohms)  ctance (ohms)	VI Xd)	Sync	* Ver Outp Direct Zero	sion No.  Field Amperesat rai ut Power of Exciter  ous Speed (RPM)  West-axis Transient Research	ted ger	merator volta  Win  ce (X'd) (ohms) (ohms)	ge arr Ty	ubmit Copies of Salient  d current and rpe of voltage re Connection  Direct-axis Su Natural Imped	he Saturation Cur Non-Salient  % Figulator  Minimum Ope Frequency/Tin  Wye Gip-Transient React	PF over-excited  Prating me  Grounded tance (X'd) (ohms)  g Resister (if any) (ohms)
* Model No Torque (lb Type of Ex Locked Ro Generator Direct-axis	o: o-ft) cciter otor Current (Ar Connection s Synchronous Sequence Reac	Rated RPM  nps)  Delta Reactance ( (ohms)  ctance (ohms)	VI Xd)	Sync	* Ver Outp Direct Zero	sion No.  Field Amperesat radut Power of Exciter ous Speed (RPM)W ct-axis Transient Re	ted ger	merator volta  Win  ce (X'd) (ohms) (ohms)	ge arr Ty	ubmit Copies of Salient  d current and rpe of voltage re Connection  Direct-axis Su Natural Imped	he Saturation Cur Non-Salient  % Figulator  Minimum Ope Frequency/Tin  Wye Gip-Transient React	PF over-excited  Prating me  Grounded tance (X'd) (ohms)  g Resister (if any) (ohms)

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Rotor Resistance (Rr)	Exciting Current			Rotor Resistance (Xr)				Reactive Power Required		
(ohms)		(Amps)		(0		nms)				
Magnetizing Reactance (Xm)	netizing Reactance (Xm) VARS (No Lo			tor Resistanc		VAF	RS (Full load)			
(ohms)	(ohms)					(ohms)				
Stator Reactance (Xs)	Short Circuit React	(Xd)		Phases						
(ohm	s)	(ohms)			ns)	☐ Single Phase ☐ Three-Phase				
Frame Size		Design Letter				Temp Rise (°C)				
REVE	IATION (L	.EVEL	3 REVIE	W O	NLY)					
Manufacturer:		Model No.								
Relay Type:		Reverse Power Setting				Reverse Power Time Delay (if any)				
	*	FOR INVERTER	R-B/	ASED MA	CHINE	S				
				ormation						
Manufacturer:		111101101		omination .		Model No	0.			
Time				Data d Outr						
Type  ☐ Forced Commutated ☐ L	ina Commuta	tod		Rated Outp	ut					
						_ Watts _		Volts		
Efficiency (%)	Po	ower Factor (%)			Inverter UL 1741 Listed					
				Yes No						
DC Source/Prime Mover										
Rating	Rating		ed Voltage			Open Circuit Voltage (if applicable)				
(kW)	(kVA)		Volts			Volts				
Rated Current (Amps)		3	Short	Circuit Currer	nt <i>(if app</i>	<i>licable)</i> (Amp	os)			
		*OTHER FACIL								
One-Line Diagram - A basic drawir and major component of the install								line and each electrical device		
One-Line Diagram attached: Yes										
Plot Plan - A map or sketch showing the distributed generation facility's location in relation to streets, alleys, or other geographic markers (i.e. section pin, corner pin, buildings, permanent structures, etc.).										
Plot Plan attached: Yes										
*MEMBER-CONSUMER SIGNATURE										
I hereby certify that all of the information provided in this Interconnection Request Application Form is true.										
Applicant Signature (signature mus	st reflect Contac	ct Name under section	Inter	connection A <sub>l</sub>	oplicant (	Contact Infor	matio	n) Date:		
Printed Name:						Title	:			
An application fee is required before appropriate fee is included with the			Please	se verify that the Amount \$						
		FOR COOPER	RAT	IVE USF	ONI Y					
Date Received:			- 11	Project ID:	J. 18					

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*COOPERATIVE ACKNOWLEDGEMENT							
Receipt of the application fee is acknowledged and this interconnection request is complete.							
Cooperative Representative's Signature		Date					
Printed Name:	Title:						

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