

ATTACHMENT A

MENARD ELECTRIC COOPERATIVE

Application for Operation of Member-Owned Generation

This application should be completed and returned to the Cooperative Member Service representative in order to begin processing the request. See Member Guidelines for Electric Power Generator Installation and Interconnection for additional information.

INFORMATION: This application is used by the Cooperative to determine the required equipment configuration for the Member interface. Every effort should be made to supply as much information as possible.

PART 1

OWNER/APPLICANT INFORMATION

Owner/Member

Name: _____

Mailing Address: _____

City: _____ County: _____ State: _____ Zip Code: _____

Phone Number: _____ Representative: _____

Email Address: _____ Fax Number: _____

PROJECT DESIGN/ENGINEERING (ARCHITECT) (as applicable)

Company: _____ License/Registration Number _____

Mailing Address: _____

City: _____ County: _____ State: _____ Zip Code: _____

Phone Number: _____ Representative: _____

Email Address: _____ Fax Number: _____

ELECTRICAL CONTRACTOR (as applicable)

Company: _____ License/Registration Number _____

Mailing Address: _____

City: _____ County: _____ State: _____ Zip Code: _____

Phone Number: _____ Representative: _____

Email Address: _____ Fax Number: _____

TYPE OF GENERATOR (as applicable)

Photovoltaic _____ Wind _____ Microturbine _____
Diesel Engine _____ Gas Engine _____ Combustion Turbine _____
Other _____

ESTIMATED LOAD, GENERATOR RATING AND MODE OF OPERATION INFORMATION

The following information is necessary to help properly design the Cooperative member interconnection. This information is not intended as a commitment or contract for billing purposes.

Total Site Load _____ (kW)
Residential _____ Commercial _____ Industrial _____
Generator Rating _____ (kW) Annual Estimated Generation _____ (kWh)

Mode of Operation

Isolated _____ Paralleling _____ Power Export _____

DESCRIPTION OF PROPOSED INSTALLATION AND OPERATION

Give a general description of the proposed installation, including a detailed description of its planned location, the date you plan to operate the generator, the frequency with which you plan to operate it and whether you plan to operate it during on or off-peak hours.

PART 2

(Complete all applicable items. Copy this page as required for additional generators)

SYNCHRONOUS GENERATOR DATA

Unit Number: _____ Total number of units with listed specifications on site: _____
Manufacturer: _____
Type: _____ Date of manufacture: _____
Serial Number (each): _____
Phases: Single Three R.P.M.: _____ Frequency (Hz): _____
Rated Output (for one unit): _____ Kilowatt _____ Kilovolt-Ampere
Rated Power Factor (%): _____ Rated Voltage (Volts): _____ Rated Amperes: _____
Field Volts: _____ Field Amps: _____ Motoring power (kW): _____

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Synchronous Reactance (Xd): _____ % on _____ KVA base
Transient Reactance (X'd): _____ % on _____ KVA base
Subtransient Reactance (X''d): _____ % on _____ KVA base
Negative Sequence Reactance (Xs): _____ % on _____ KVA base
Zero Sequence Reactance (Xo): _____ % on _____ KVA base
Neutral Grounding Resistor (if applicable): _____

I_2^2t or K (heating time constant): _____
Additional information: _____

INDUCTION GENERATOR DATA

Rotor Resistance (Rr): _____ ohms Stator Resistance (Rs): _____ ohms
Rotor Reactance (Xr): _____ ohms Stator Reactance (Xs): _____ ohms
Magnetizing Reactance (Xm): _____ ohms Short Circuit Reactance (Xd''): _____ ohms
Design letter: _____ Frame Size: _____
Exciting Current: _____ Temp Rise (deg C°): _____
Reactive Power Required: _____ Vars (no load), _____ Vars (full load)
Additional information: _____

PRIME MOVER (Complete all applicable items)

Unit Number: _____ Type: _____
Manufacturer: _____
Serial Number: _____ Date of manufacture: _____
H.P. Rated: _____ H.P. Max.: _____ Inertia Constant: _____ lb.-ft.²
Energy Source (hydro, steam, wind, etc.) _____

GENERATOR TRANSFORMER (Complete all applicable items)

TRANSFORMER (between generator and utility system)

Generator unit number: _____ Date of manufacturer: _____
Manufacturer: _____
Serial Number: _____
High Voltage: _____ KV, Connection: delta wye, Neutral solidly grounded? _____
Low Voltage: _____ KV, Connection: delta wye, Neutral solidly grounded? _____
Transformer Impedance(Z): _____ % on _____ KVA base.
Transformer Resistance (R): _____ % on _____ KVA base.
Transformer Reactance (X): _____ % on _____ KVA base.
Neutral Grounding Resistor (if applicable): _____

INVERTER DATA (if applicable)

Manufacturer: _____ Model: _____
Rated Power Factor (%): _____ Rated Voltage (Volts): _____ Rated Amperes: _____
Inverter Type (ferroresonant, step, pulse-width modulation, etc): _____

Type commutation: forced line
Harmonic Distortion: Maximum Single Harmonic (%) _____
Maximum Total Harmonic (%) _____

Note: Attach all available calculations, test reports, and oscillographic prints showing inverter output voltage and current waveforms.

POWER CIRCUIT BREAKER (if applicable)

Manufacturer: _____ Model: _____
Rated Voltage (*kilovolts*): _____ Rated ampacity (*Amperes*) _____
Interrupting rating (*Amperes*): _____ BIL Rating: _____
Interrupting medium / insulating medium (ex. Vacuum, gas, oil) _____ / _____
Control Voltage (Closing): _____ (Volts) AC DC
Control Voltage (Tripping): _____ (Volts) AC DC Battery Charged Capacitor
Close energy: Spring Motor Hydraulic Pneumatic Other: _____
Trip energy: Spring Motor Hydraulic Pneumatic Other: _____
Bushing Current Transformers: _____ (Max. ratio) Relay Accuracy Class: _____
Multi ratio? No Yes: (Available taps) _____

ADDITIONAL INFORMATION

In addition to the items listed above, please attach a detailed one-line diagram of the proposed facility, all applicable elementary diagrams, major equipment, (generators, transformers, inverters, circuit breakers, protective relays, etc.) specifications, test reports, etc., and any other applicable drawings or documents necessary for the proper design of the interconnection. Also describe the project's planned operating mode (e.g., combined heat and power, peak shaving, etc.), and its address or grid coordinates.

The member agrees to provide the Cooperative with any additional information required to complete the interconnection. The customer shall operate his equipment within the guidelines set forth by the cooperative.

Applicant

Date

**MENARD ELECTRIC COOPERATIVE CONTACT FOR APPLICATION SUBMISSION AND FOR
MORE INFORMATION:**

Cooperative contact: _____

Title: _____

Address: _____

Phone: _____

Fax: _____

E-mail: _____

ATTACHMENT B

AGREEMENT FOR INTERCONNECTION AND PARALLEL OPERATION OF DISTRIBUTED GENERATION

This Agreement for Interconnection and Parallel Operation of Distributed Generation (hereinafter “Agreement”) is made between **MENARD ELECTRIC COOPERATIVE, INC.**, (hereinafter referred to as “Cooperative”), an electric cooperative organized under the laws of the State of Illinois, and _____, (hereinafter referred to as “Member”), a member/owner of the Cooperative presently receiving electric service from Cooperative, each hereinafter sometimes referred to individually as “Party” or both referred to collectively as the “Parties”.

In consideration of the mutual covenants set forth herein, and other good and valuable consideration, the sufficiency and receipt thereof is hereby acknowledged, the Parties agree as follows:

1. Scope of Agreement – This Agreement addresses the conditions under which the Cooperative and Member agree that one or more generating facilities (herein referred to as “distributed generation” and more particularly described in Exhibit A) owned and/or operated by Member with a nameplate capacity of 1 MW or less, (collectively hereinafter sometimes referred to as the “Facilities”), can be interconnected to the Cooperative’s electric power distribution system (hereinafter sometimes referred to as the “System”). This Agreement shall not entitle the Member to electric service beyond the terms of a separate membership agreement for service and to the Cooperative’s rules, policies, regulations, by-laws and rates (hereinafter collectively “Requirements”).

2. Establishment of Point of Interconnection –Cooperative and Member agree to interconnect the Facilities at the location(s) specified in Exhibit A “Point of Interconnection” in accordance with the terms of the Cooperative’s policy on Interconnection and Parallel Operation of Distributed Generation and the Institute of Electrical and Electronic Engineers (IEEE) Standards 1547, 1547.1 and UL Standard 1741.

3. Responsibilities of Cooperative and Member for Installation, Operation and Maintenance of Facilities – Member will, at member’s cost and expense, install, operate, maintain, repair, and inspect, and shall be fully responsible for, its facilities and interconnection facilities, unless otherwise specified on Exhibit A. Member shall conduct operations of its facilities and interconnection facilities in compliance with all aspects of the cooperative’s requirements and in accordance with industry standards and Good Utility Practice. As used herein, Good Utility Practice shall mean any of the practices, methods and acts engaged in or approved by a significant portion of the electric industry during the relevant time period, or any of the practices, methods and acts which, in the exercise of

reasonable judgment in light of the facts known at the time the decision was made, could have been expected to accomplish the desired result at a reasonable cost consistent with good business practices, reliability, safety and expedition. Good Utility Practice is not intended to be limited to the optimum practice, method, or act to the exclusion of all others, but rather to be acceptable practices, methods, or acts generally accepted in the region. Maintenance of facilities and interconnection facilities shall be performed in accordance with the applicable manufacturer's recommended maintenance schedule. Member agrees to cause its facilities and interconnection facilities to be constructed in accordance with Menard Electric Cooperative's Policy on Interconnection and Parallel Operation of Distributed Generation. The Cooperative shall have the right to inspect and require changes prior to energizing. Phasing, frequency and voltage of the member's interconnected generation shall be compatible with that provided by the Cooperative

Member shall comply with all applicable Federal, State and local laws, regulations, zoning codes, building codes, safety rules and environmental restrictions applicable to the design, installation, operation and maintenance of its facilities and interconnection facilities.

The Cooperative will notify Member if there is evidence that the facilities' or interconnection facilities' operation causes disturbance, disruption or deterioration of service to other members served from the System or if the facilities' or interconnection facilities' operation causes damage to the System. If this condition persists, the Cooperative shall have the right to disconnect Member from the System. Member will notify the Cooperative of any emergency or hazardous condition or occurrence with Member's facilities or interconnection facilities which could affect safe operation of the System.

4. Operator in Charge – Member shall provide a phone number and address of an individual contact person with knowledge of this agreement, familiar with the installation, maintenance and operation of the interconnection facilities and with the authority to disconnect the facility from the system in the event the cooperative requires doing so.

5. No Power Sales to Cooperative - Interconnection of the Facilities with the System does not grant Member the right to export power nor does it constitute an agreement by the Cooperative to purchase or wheel power. Purchase of excess facility capacity is governed by Menard Electric Cooperative's Policy on Net Metering and Cooperative Purchase of Excess Member Owned Generation Capacity.

6. Limitation of Liability and Indemnification

a. Notwithstanding any other provision in this Agreement, with respect to the Cooperative's provision of electric service to Member and the services provided by the Cooperative pursuant to this Agreement, Cooperative's liability to Member shall be limited as set forth in the Cooperative's rules, bylaws, policies, contracts, and terms and conditions for electric service, which are incorporated herein by reference, and in no

event shall the Cooperative be liable for loss of profit, loss of operation time, or loss of or reduction in use of any facilities or any portion thereof, increased expense of construction, operation or maintenance, or for any special, indirect, incidental, or consequential damages resulting from the construction, operation or maintenance of the member's facility.

b. For the purposes of this Agreement, a Force Majeure event is any event beyond the reasonable control of the affected party that the affected party is unable to prevent or provide against by exercising reasonable diligence. This includes but is not limited to public disorder, rebellion or insurrection, floods, hurricanes, earthquakes, lightning, storms or other natural calamities, explosions or fires, strikes, work stoppages or labor disputes, embargoes, and sabotage. If a Force Majeure event prevents a party from fulfilling any obligations under this Agreement, such party will promptly notify the other party in writing and will keep the other party informed on a continuing basis as to the scope and duration of the Force Majeure event. The affected party will specify the circumstances of the Force Majeure event, its expected duration and the steps that the affected party is taking to mitigate the effect of the event on its performance. The affected party will be entitled to suspend or modify its performance of obligations under this Agreement but will use reasonable efforts to resume its performance as soon as possible.

c. Member shall be responsible for the safe installation, maintenance, repair and condition of lines, wires, switches, or other equipment or property on its side of the point of interconnection. The Cooperative does not assume any duty of inspecting Member's lines, wires, switches, or other equipment or property and will not be responsible therefore. Member assumes all responsibility for the electric service supplied hereunder and the facilities used in connection therewith at or beyond the point of interconnection.

7. Testing and Testing Records – Member shall perform or cause to be performed such tests as the Cooperative may reasonably require and shall provide to the Cooperative all records of testing. Testing of protection systems shall comply with existing industry standards and practices. These records shall include testing at the start of operation and periodic testing thereafter. Factory testing of pre-packaged interconnection facilities and the protective systems of small units shall be acceptable in the absence of reasonable grounds for additional testing. In the case of a factory test, Member shall provide a written description and certification by the factory of the test, the test results, and the qualification of any independent testing laboratory. In addition, Member shall obtain approval by the Cooperative of the settings of the equipment being installed prior to operation.

8. Right of Access, Equipment Installation, Removal & Inspection – The Cooperative shall have free access to the member's small generation facility and interconnection equipment at all times to monitor operation of the member's equipment, cooperative-supplied service equipment connected to such system, or to disconnect for good

cause, without prior notice to the member, member's equipment from the cooperative's distribution system.

The Cooperative shall also have access to Member's premises and to operational records for any reasonable purpose in connection with the interconnection described in this Agreement, the Requirements, or to provide service to its members.

9. Disconnection of Facilities – Member retains the option to disconnect its facilities from the System, provided that Member notifies the Cooperative of the member's intent to disconnect by giving the Cooperative at least thirty (30) days' prior written notice. Such disconnection shall not be a termination of this Agreement unless Member exercises rights under Section 12 that do not lead to a resolution of the issue.

Member shall disconnect Facilities from the System upon the effective date of any termination resulting from and required by actions under Section 12.

The Cooperative may disconnect the electric generation facilities from its system whenever, in the sole opinion of the cooperative, such action is required by an emergency, for reasons of safety or due to interference with service to other members. The facility shall also be subject to the cooperative's requirements for maintaining voltage standards of output, limitation of harmonic currents and the production of reactive power.

10. Metering – The Cooperative shall be reimbursed for all costs of interconnection, including all carrying and metering costs, incurred by the Cooperative in connecting the member generation facility to the distribution system. Metering shall meet accuracy standards required for equivalent electrical services and can be accomplished with standard meters or any devices that meet data collection and accuracy requirements.

11. Insurance – Throughout the term of this agreement, Member shall carry a liability insurance policy issued by a licensed insurance carrier with an A. M. Best rating of B+ or better that provides protection against claims for damages resulting from (i) bodily injury, including wrongful death; and (ii) property damage arising out of the member's ownership and/or operation of the DG Facility under this agreement. The limits of such policy for a small generation facility shall be at least \$1,000,000 per occurrence. The member shall provide a certificate of insurance containing a minimum 30 day notice of cancellation to the Cooperative prior to connection of the member's facility to the Cooperative system.

As an alternative to providing insurance coverage, the member may choose to self insure by providing proof of financial responsibility satisfactory to the cooperative and agrees to indemnify the cooperative, its officers, agents, and employees against all loss, damage, expense and liability to any persons, including members, for injury to or death of persons or injury to property, including but not limited to consequential damages, interest, punitive damages, member's fees and court costs, proximately caused by the indemnifying party's construction, ownership, interconnection, operation, or maintenance of, or by failure

of, any of such member's works or facilities used in connection with the operation of the generating facility.

12. Effective Term and Termination Rights – This Agreement becomes effective when executed by both Parties and shall continue in effect until terminated. This Agreement may be terminated as follows: (a) Member may terminate this Agreement at any time by giving the Cooperative at least sixty (60) days' written notice; (b) Cooperative may terminate upon failure by Member to generate energy from the Facilities within six (6) months after completion of the interconnection; (c) either Party may terminate by giving the other Party at least thirty (30) days prior written notice that the other Party is in default of any of the terms and conditions of the Agreement or the Rules or any rate schedule, regulation, contract, or policy of the Cooperative, so long as the notice specifies the basis for termination and there is opportunity to cure the default; (d) Cooperative may terminate by giving Member at least sixty (60) days notice in the event that there is a material change in an applicable law, or any change in policy or procedure pertaining to distributed generation by the Cooperative's wholesale electric supplier or requirement of any transmission utility, independent system operator or regional transmission organization having responsibility for the operation of any part of the System; (e) Cooperative may terminate this Agreement upon three (3) business days notice in the event Member ceases to receive electric service from Cooperative or is in default of terms or conditions for electric service; in the event that a Party (i) makes a general assignment or arrangement for the benefit or creditors; (ii) commences an action or proceeding under any bankruptcy, insolvency or similar law for the protection of debtors or creditors, or has commenced against it any such action or proceeding which is not withdrawn or dismissed within thirty (30) days; (iii) otherwise is adjudicated a debtor in bankruptcy or insolvent; (iv) is unable (or admits in writing its inability) generally to pay its debts as they become due; (v) is dissolved or has a resolution passed for its winding-up or liquidation (other than pursuant to a consolidation, acquisition or merger); (vi) seeks or becomes subject to the appointment of an administrator, assignee, conservator, receiver, trustee or similar official for substantially all of its assets; (vii) has a secured party take possession of all or substantially all of its assets or has all, or has substantially all of its assets become subject to an attachment, execution, levy, sequestration or other legal process which is not dismissed discharged, stayed or restrained within thirty (30) days; (viii) causes or is subject to any event that has an effect analogous to any of the events enumerated in clauses (i) through (vii); or (ix) takes any action in furtherance of, or indicates its consent to, approval of, or acquiescence in any of the foregoing acts or events; then, in such event, this Agreement shall terminate automatically without notice and without any other action by either Party.

13. Compliance with Laws, Rules and Regulations– Member shall be responsible for complying with all federal, state and local laws. In the event Member's facilities, interconnection or disposition of electricity generated by the distributed generation are, or become, subject to Federal, State or local regulation, Member is, and shall be, responsible for regulatory compliance. The interconnection and services provided under this Agreement shall at all times be subject to the terms and conditions set forth in the Rules and the

Cooperative’s policies governing interconnection of distributed generation. The Cooperative reserves the right to change the Rules and policies at any time.

14. Severability – If any portion or provision of this Agreement is held or adjudged for any reason to be invalid or illegal or unenforceable by any court of competent jurisdiction, such portion shall be deemed separate and independent, and the remainder of this Agreement, shall remain in full force and effect.

15. Amendment – This Agreement may be amended only upon mutual agreement of the Parties, which amendment will not be effective until reduced to writing and executed by the Parties.

16. Entirety of Agreement – This Agreement, including the requirements contained in the attached Exhibits and Facilities Schedules, which are expressly made a part hereof for all purposes, constitutes the entire agreement and understanding between the Parties with regard to the interconnection of the facilities of the Parties at the Points of Interconnection expressly provided for in this Agreement. The Parties are not bound by or liable for any statement, representation, promise, inducement, understanding, or undertaking of any kind or nature (whether written or oral) with regard to the subject matter hereof not set forth or provided for herein or in Member’s application, or other written information provided by the Member in compliance with these requirements.

17. Assignment – This Agreement may be assigned to a party receiving electric service from the Cooperative at the site of the Facilities only upon the express written consent of the Cooperative. The assignee will be responsible for the proper operation and maintenance of the Facilities, and must agree in writing to be subject to all provisions of this Agreement. Cooperative may assign the Agreement to another entity with the written approval of Member. Required consents shall not be withheld unreasonably.

18. Notices – Notices given under this Agreement are deemed to have been duly delivered once received by United States certified mail, return receipt requested, postage prepaid, to:

<u>Menard Electric Cooperative</u>	<u>Member</u>
Name: _____	_____
Title: _____	_____
Address: _____	_____
_____	_____
_____	_____

The above-listed names, titles, and addresses of either Party may be changed by written notification to the other.

19. Invoicing and Payment – Invoicing and payment terms for services associated with this Agreement shall be consistent with applicable cooperative policies.

20. No PURPA Interconnection – The parties agree that the member’s facility is not a qualifying small power production facility or qualifying cogeneration facility as defined in the Public Utility Regulatory Policies Act of 1978 and that nothing herein confers any rights or obligations on either party by application of that Act.

21. No Third-Party Beneficiaries – This Agreement is not intended to and does not create rights, remedies, or benefits of any character whatsoever in favor of any persons, corporations, associations, or entities other than the Parties, and the obligations herein assumed are solely for the use and benefit of the Parties.

22. Waiver - The failure of either party to insist, on any occasion, upon strict performance of any provision of this Agreement will not be considered to waive the obligations, rights or duties of the provisions in this Agreement.

23. Governing Law and Jurisdiction – It is agreed that this Agreement shall be construed and governed in accordance with the laws of the State of Illinois and that the circuit court of Menard County has jurisdiction on all matters relating to the enforcement of this Agreement.

24. Notice of Dispute - In the event of a dispute, either Party shall provide the other Party with a written Notice of Dispute describing in detail the nature of the dispute. If the dispute has not been resolved within thirty (30) business days after receipt of the Notice, either Party may request assistance from the Menard Electric Cooperative Board of Directors in resolving the dispute. If the attempted dispute resolution fails, then either Party may exercise whatever rights and remedies it may have in equity or law consistent with the terms of this policy.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be signed by their duly authorized representatives.

MENARD ELECTRIC COOPERATIVE, INC.

MEMBER

BY: _____

TITLE: _____

EXHIBIT A

DESCRIPTION OF FACILITY SCHEDULE AND POINT OF INTERCONNECTION

Facility Schedule No.

Point of Interconnection

Member will, at Member's own cost and expense, operate, maintain, repair, and inspect, and shall be fully responsible for its Facilities, unless otherwise specified on Exhibit A.

FACILITIES SCHEDULE NO.

1. Name:
2. Facilities location:
3. Delivery voltage:
4. Metering (voltage, location, losses adjustment due to metering location, and other:
5. Normal Operation of Interconnection:
6. One line diagram attached (check one):/ _____ Yes / _____ No
7. Facilities to be furnished by Cooperative:
8. Facilities to be furnished by Consumer:
9. Cost Responsibility:
10. Control area interchange point (check one): / _____ Yes / _____ No
11. Supplemental terms and conditions attached (check one): / _____ Yes / _____ No
12. Cooperative requirements for DG interconnection attached (check one): / _____ Yes / _____ No

MENARD ELECTRIC COOPERATIVE

MEMBER

BY: _____

TITLE: _____

DATE: _____

DATE: _____