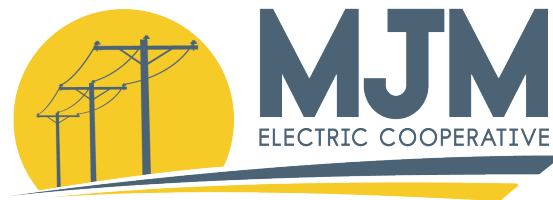


RENEWABLE ENERGY INTERCONNECTION



A Touchstone Energy® Cooperative 

STEP ONE: CONTACT MJM

We want you to have as much accurate information as possible, so no matter where you are in the process, you will be more informed about becoming a renewable energy member. We encourage you to call us, even if you are only thinking about solar, wind, ground-source (geothermal) or hydroelectricity. We would love to help.

Call us at 217-707-6156 or email solar@mjmec.coop



STEP TWO: SUBMIT DOCUMENTS

Either yourself or your hired solar company/provider will need to fill out and submit the following for MJM Engineering to review:

- **Attachments A&B (from MJM Policy III-34).**
- **One-line Diagram**
- **Spec Sheets on all equipment & site plan**



STEP THREE: PRE-CONSTRUCTION REVIEW

MJM's Engineering Department will review all the submitted documents. An Approval or Rejection notice will be sent and any revisions or corrections to the One-Line, documents, etc. must be completed prior to the installation of the system. If approved, construction/installation can begin.



STEP FOUR: INSURANCE AND FEE*

- **Payment of Interconnection Fee: \$600**
(includes engineering review, connection, inspection, and processing)
- **\$1,000,000 Liability Insurance Policy in place**
(MJM listed as Additional Insured - so we receive renewals/cancel notices)

**This step may be done at any point in the process.*



STEP FIVE: SAFETY INSPECTION & COMPLETION

After all documents and fees have been received and construction is complete contact MJM to set up a **final safety inspection**.

If the inspection passes, your project is complete and your solar company or yourself is ready to energize your new system.

You will receive a **Certificate of Completion** document from MJM and your metering and billing will be changed to **Member Generation**.



M.J.M. ELECTRIC COOPERATIVE, INC.

SECTION III – MEMBERS AND CONSUMERS

Policy 34 APPROVED: 02/21/2008

REVIEWED: 3/24/2016

REVISED: 02/23/2017 11/30/2017 11/29/2018 01/23/2020 9/29/2022

**INTERCONNECTION AND PARALLEL OPERATION
OF DISTRIBUTED GENERATION**

I. OBJECTIVE

To establish safety, reliability and economic criteria for interconnection and parallel operation of distributed generation that encourage Member-Owned on-site electric generation facilities using renewable fuel sources designed primarily, but not exclusively, to offset the Member's electrical requirements while honoring the Cooperative's objective to provide equitably priced electricity to all Members on a Cooperative basis.

II. DEFINITIONS

DISTRIBUTED GENERATION is defined as any generation built within close proximity to the generating Member's load regardless of generation capacity or energy source of such generation and includes but is not limited to:

- A. small scale environmentally friendly generators such as photovoltaics (PV), fuel cells, small wind turbines;
- B. microturbines or reciprocating engines fueled by renewable fuels such as landfill gas or methane gas from digesters;
- C. any qualifying facility (QF) under the Public Utility Regulatory Policies Act of 1978 (PURPA);
- D. commercial emergency and standby diesel generators installed, for example, in hospitals, hotels and farms;
- E. residential standby generators.

IEEE STANDARD 1547 – The Institute of Electrical and Electronic Engineers, Inc. (IEEE) Standard 1547 (2003) "Standard for Interconnecting Distributed Resources with Electric Power Systems", as amended and supplemented, at the time the interconnection request is submitted.

IEEE STANDARD 1547.1 – The IEEE Standard 1547.1 (2005) “Conformance Test Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems”, as amended and supplemented, at the time the interconnection request is submitted.

NAMEPLATE CAPACITY – The maximum rated output of a generator, prime mover, or other electric power production equipment under specific conditions designated by the manufacturer and is usually indicated on a nameplate physically attached to the power production equipment.

POINT OF INTERCONNECTION – The point of interconnection shall be the physical location where Cooperative and Member facilities are interconnected.

SMALL GENERATOR FACILITY – The equipment used by an interconnection Member to generate, or store electricity that operates in parallel with the electric distribution system with a nameplate capacity of 25 kW or less. A small generator facility typically includes an electric generator, prime mover, and the interconnection equipment required to safely interconnect with the electric distribution system or local electric power system. These facilities have been approved by a nationally recognized testing laboratory or must have been approved by the Cooperative under a study process.

UL STANDARD 1741 – Underwriters Laboratories’ standard titled “Inverters Converters, and Controllers for Use in Independent Power Systems”, November 7, 2005 edition, as amended and supplemented.

WITNESS TEST – For lab certified or field approved equipment, verification (either by an on-site observation or review of documents) by the Cooperative that the interconnection installation evaluation required by IEEE Standard 1547 Section 5.3 and the commissioning test required by IEEE Standard 1547 Section 5.4 have been adequately performed. For interconnection equipment that has not been lab certified or field approved, the witness test shall also include the verification by the Cooperative of the on-site design tests as required by IEEE Standard 1547 Section 5.1 and verification by the Cooperative of production tests required by IEEE Standard 1547 Section 5.2. All tests verified by the Cooperative are to be performed in accordance with the test procedures specified by IEEE Standard 1547.1.

III. APPLICABILITY

This interconnection policy applies to Cooperative Members proposing to install and interconnect distributed generation facilities that:

- A. Are not subject to the interconnection requirements of MISO/PJM; and
- B. Are designed to operate in parallel with the electric distribution system.

IV. INTERCONNECTION REQUESTS

- A. Members seeking to interconnect a generator facility shall submit an interconnection request using the form attached hereto as Attachment A. **Prior to**

installing an interconnection system, the Member and a designated MJM employee must review and complete Attachment B together.

- B. Interconnection equipment shall be deemed to be lab certified if it is evaluated by a nationally recognized testing laboratory (NRTL) and found to be in compliance with IEEE 1547 Standard for Interconnecting Distributed Resources with Electric Power Systems (including use of IEEE 1547.1 testing protocols to establish conformity), UL 1741 Inverters, Converters, and Controllers for Use in Independent Power Systems and NFPA 70 National Electrical Code.
- C. Interconnection equipment shall be deemed to be field approved if within the previous 36 months of the date of the interconnection request, it has been previously approved for use with the proposed distributed generation facility in a materially identical system application, and the prior approval process included a successful witness test.
- D. The Member must submit to the Cooperative plans of the proposed installation and must obtain approval for the installation. This approval process will include a review by the Cooperative of the effect of the proposed generation on the Cooperative's distribution system, including its protective scheme. The Member requesting interconnection shall pay the cost of this review. No installation will be permitted that reduces reliability to other Members or causes voltage and/or capacity conditions on the system to be outside of the limits of ANSI C84.1 Range A.
- E. No installation will be permitted that is expected to produce objectionable harmonics on the system. Any mitigation required to resolve harmonic problems created by a Member-owned generator will be completed and paid for by the Member.
- F. Any changes to a Member's existing distributed generation facility and interconnected equipment will require the Member to submit a new application for interconnection approval.
- G. Pursuant to MJM's All Power Supply Contract with Wabash Valley Power Alliance, Inc., interconnection of generating facilities with nameplate ratings greater than 25 kW shall be governed by Wabash Valley Power Alliance, Inc.'s applicable policies.

V. APPLICATION REVIEW

- A. The Cooperative shall review the application and evaluate the potential for adverse system impacts due to the installation of distributed generation. Any costs of construction of facilities on the Cooperative's system to accommodate the distributed generation facility shall be paid by the Member.

- B. The Cooperative shall make its best effort to inform the applicant, within 20 business days after receipt of the interconnection request, and verify that the distributed generation facility equipment can be interconnected safely and reliably.
- C. If the Cooperative determines that a distributed generation facility cannot be interconnected safely or reliably to its system, it shall provide a letter to the applicant explaining its reasons for denying the interconnection request. If the Cooperative approves the interconnection request, the approval will be subject to the following conditions:
 - 1. The distributed generation facility has been approved by local or municipal electric code officials with jurisdiction over the interconnections; and
 - 2. A certificate of completion has been returned to the Cooperative. Completion of local inspections may be designated on inspection forms used by local inspecting authorities; and
 - 3. The witness test has been successfully completed or waived; and
 - 4. The applicant has signed a standard distributed generation interconnection agreement and provided proof of insurance or otherwise complied with the terms of the agreement. When an applicant does not sign the agreement within 30 business days after receipt from the Cooperative, the interconnection request may be deemed withdrawn unless the applicant requests to have the deadline extended. The request for extension shall not be unreasonably denied by the Cooperative.
- D. The Cooperative shall be reimbursed for all costs of interconnection, including all carrying costs, incurred by the Cooperative in connecting the Member generation facility to the distribution system. Those costs, herein after referred to as an “interconnection fee”.
- E. For systems of distributed generation over 25kW the Member shall provide up to a \$5,000 deposit to cover the interconnection fees. The Member shall be responsible for all Cooperative costs of interconnection including all direct and indirect costs for the initial and future transmission, distribution, metering, permitting, service and other facilities costs necessary to allow interconnected operations with the Cooperative. To the extent that a transmission provider is involved in this decision-making process, additional deposits may be required as well as additional time to complete the proposed interconnection. After the installation is completed or the request rejected or withdrawn, any unspent amount from the deposit will be refunded. If additional cost has been incurred and not covered through initial and subsequent deposits, that balance will be due from the Member within 30 days of invoice.

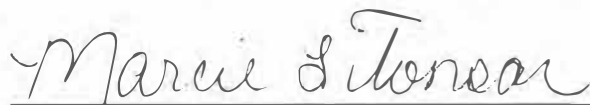
VI. INSURANCE REQUIREMENTS AND INDEMNIFICATION

- A. Throughout the term of this agreement, the 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 distributed generation facility under this agreement. The limits of such policy shall be at least **\$1,000,000 per occurrence** for those Members with small generation facilities. Prior to and during interconnection, the Member must provide a current Certificate of Insurance containing a minimum (30) thirty-day notice of cancelation, change or renewal to the Cooperative. In addition, the Certificate of Insurance must list "**MJM Electric Cooperative, PO Box 80, Carlinville, IL 62626**" as a **certificate holder** on the document. **Please direct your insurance company to email all correspondence to solar@mjmec.coop.**
- B. When MJM has been made aware that an insurance policy has lapsed, been canceled, or no longer meets interconnection requirements, MJM will make two attempts to notify the Member by phone and/or regular postal mail of the need for updated documentation. Failure to provide the required information will result in disconnection without further notice of the Member's generation system. Interconnection will remain disconnected until updated proof of insurance is on file as required in section VI-A.
- C. Interconnection will be temporarily disconnected if insurance requirements are not met accordingly. Therefore, a \$50 disconnect fee and \$50 reconnect fee will be applied to the account balance which must be paid in full prior to reconnection.
- D. 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.
- E. 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.

VII. MISCELLANEOUS REQUIREMENTS

- A. The Cooperative shall have free access to the Member's distributed 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 if the facility is not in compliance with the requirements of IEEE 1547 and the non-compliance adversely affects the safety or reliability of the electric system. The Cooperative shall provide reasonable notice to the Member prior to disconnection of the facility if possible.
- B. The Cooperative shall have the right to inspect and approve all plans for parallel generation systems and the interconnection systems prior to initial operation or subsequent operation following modifications.
- C. The Member shall make any necessary changes or adjustments to the additional facilities being operated in parallel to eliminate interference on the Cooperative's distribution system.
- D. The Member shall not back feed the Cooperative's system during any period of utility service interruption. When using battery storage or battery excitation of the inverter, an automatic transfer switch is required. The Member's equipment must contain a lockable disconnect switch to which the Cooperative has access and which the Cooperative can lock in an open position to disconnect, for safety reasons.
- E. Electric generation facilities may be disconnected by the Cooperative 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 and the production of reactive power.
- F. Phase, frequency and voltage of the Member's interconnected generation shall be compatible with that provided by the Cooperative.
- G. The Members shall pay the cost of interconnection including initial and future transmission, distribution, metering, service and other facilities costs necessary to permit interconnected operations with the Cooperative.
- H. Any auxiliary or reserve power service required by the Member must be arranged in accordance with the terms of the Cooperative's applicable policies/rates as modified from time to time.
- I. 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 fourteen Business Days after receipt of the Notice, either Party may request assistance from a reputable dispute resolution service for assistance in resolving the dispute. The service will select an appropriate dispute resolution venue, (e.g., mediation, settlement judge, early neutral evaluation, or technical expert) to assist the Parties in resolving their dispute. Each party agrees

to conduct all negotiations in good faith and will be responsible for one-half of any costs paid to neutral third-parties utilized in the attempt to resolve the dispute. If neither party elects to seek assistance from a dispute resolution service, or 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.

A handwritten signature in cursive script that reads "Marcie Tonsor". The signature is written in black ink and is positioned above a horizontal line.

Marcie Tonsor, Secretary

ATTACHMENT A

MJM 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.*

OWNER/APPLICANT INFORMATION

MJM Account Number: _____

Name on MJM Account: _____ Map Location: _____

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/DC)
Residential _____ Commercial _____ Industrial _____
Generator Rating _____ (kW/AC) 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.

.....
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.

ADDITIONAL REQUIRED 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.

SIGN OFF AREA

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

MJM System Inspection Date: _____

ELECTRIC COOPERATIVE CONTACT FOR APPLICATION SUBMISSION AND FOR MORE INFORMATION:

Cooperative Contact: Member Generation Representative
Address: 18300 Shipman Rd
PO Box 80
Carlinville, IL 62626
Phone: 217-707-6156
Fax: 217-854-3918
E-mail: solar@mjmec.coop

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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. 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 prudent engineering practice. Maintenance of facilities and interconnection facilities shall be performed in accordance with the applicable manufacturers’ recommended maintenance schedule. Member agrees to cause its facilities and interconnection facilities to be constructed in accordance with Section III, Policy 34 - Interconnection and Parallel Operation of Distributed Generation. The Cooperative shall have the right to inspect and require changes prior to energizing. Phase, frequency and voltage of the Member’s interconnected generation shall be compatible with that provided by the Cooperative.

Member will be required to pay an Interconnection Fee, *as explained in Section III, Policy 34 – Interconnection and Parallel Operation of Distributed Generation, Section V, Application Review*, prior to connection of distributed generation facilities.

Member shall install a lockable disconnect switch so that Cooperative employees can quickly and safely disconnect the generator from the distribution grid when needed. Member shall pay the entire cost for the installation of this lockable disconnect switch.

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. 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 the Cooperative’s Policies in Section III – Policy 35: Net Metering and Policy 36: Member-Owned Generation Billing.

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. 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 distributed 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 and the production of reactive power.

The Cooperative may also disconnect if Member does not comply with Policy 34: Interconnection and Parallel Operation of Distributed Generation, Policy 35: Net Metering and/or Policy 36: Member-Owned Generation Billing. In such an event, the Member will be responsible for a disconnect fee. If permitted, reconnection will only be available during normal business hours and will be subject to a reconnect fee.

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**. Prior to and during interconnection, the Member must provide a current Certificate of Insurance containing a minimum (30) thirty-day notice of cancelation, change or renewal to the Cooperative. In addition, the Certificate of Insurance must list "MJM Electric Cooperative, PO Box 80, Carlinville, IL 62626" as a certificate holder on the document.

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 this Agreement at any time by giving the Member at least sixty (60) days' written notice. (c) Cooperative may terminate upon failure by Member to generate energy from the Facilities within six (6) months after completion of the interconnection; (d) 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; (e) 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; (f) Cooperative may terminate this Agreement immediately if Member is not in compliance with the insurance requirement outlined in Section Eleven (11) herein. (g) Cooperative may terminate this Agreement upon three (3) business day 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 of 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 its 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 – Except as outlined herein, 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 mailed by United States mail to: 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 Macoupin County has jurisdiction on all matters relating to the enforcement of this Agreement.

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 fourteen Business Days after receipt of the Notice, either Party may request assistance from a reputable dispute resolution service for assistance in resolving the dispute. The service will select an appropriate dispute resolution venue, (e.g., mediation, settlement judge, early neutral evaluation, or technical expert) to assist the Parties in resolving their dispute. Each party agrees to conduct all negotiations in good faith and will be responsible for one-half of any costs paid to neutral third-parties utilized in the attempt to resolve the dispute. If neither party elects to seek assistance from a dispute resolution service, or 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 agreement and the rules and policies of the Cooperative.

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

MJM ELECTRIC COOPERATIVE, INC.
REPRESENTATIVE

MJM COOPERATIVE MEMBER

BY:

(PRINT)

(PRINT)

(SIGNATURE)

(SIGNATURE)

(DATE)

(DATE)

M.J.M. ELECTRIC COOPERATIVE, INC.

SECTION III – MEMBERS AND CONSUMERS

Policy 36 Approved: 11/30/2017

REVISED: 01/23/2020 09/29/2022

MEMBER-OWNED GENERATION BILLING

POLICY

To encourage Member-Owned on-site electric generation facilities using renewable energy resources, comply with the Public Utility Regulatory Policies Act (PURPA), enhance the continued diversification of Illinois' energy resource mix and protect the Illinois environment through the use of renewable fuel sources while honoring the Cooperative's objective to provide equitably priced electricity to all Members on a Cooperative basis as required by the Illinois Not-for-Profit Act and Revenue Code Section 501(c)(12).

RESPONSIBILITY

President/CEO and Staff

DEFINITIONS

ANNUAL BILLING PERIOD means the calendar year commencing on January 1 and ending on December 31.

APPLICABLE BILLING PERIOD means the period of time over which the Cooperative bills a Member for electricity consumed during that time and for other applicable charges from the Cooperative.

AVOIDED ENERGY COSTS are the avoided variable costs associated with the production of electric energy (kilowatt-hours). These costs represent the avoided costs of fuel and some operating and maintenance expenses or the cost of purchased energy. Identifiable capacity charges included in purchase power agreements shall not be included in the calculation of avoided energy costs.

ELIGIBLE COOPERATIVE MEMBER means a Cooperative Member that owns or operates a solar, wind, or other eligible renewable electrical generating facility with a rated capacity of not more than 25 kW that is located on the Member's premises and is intended primarily to offset the Member's own electrical requirements by being connected to the Member's electrical system. Generation facilities with a rated capacity greater than 25 kW shall be governed by Wabash Valley Power Alliance's applicable policies.

ELIGIBLE RENEWABLE ELECTRICAL GENERATING FACILITY (EREGF) means a generator powered by solar electric energy, wind, dedicated crops grown for electricity generation,

anaerobic digestion of livestock or food processing waste, fuel cells or microturbines powered by renewable fuels, or hydroelectric energy. For purposes of this policy, an EREGF with a nameplate rating of 25 kW or less is governed by the provisions in MJM's Section III, Policy 34. An EREGF with a nameplate rating of more than 25 kW up to 2 MW is governed by the provisions of Article IV (F) in MJM's Section III, Policy 34.

MEMBER-OWNED GENERATION BILLING means the measurement, during the applicable billing period to an eligible Cooperative Member, of the amount of electricity supplied by the Cooperative to the Member (consumed) and provided to the Cooperative by the Member (generated).

APPLICABILITY

This policy applies to eligible Cooperative Members that choose to interconnect their eligible renewable electrical generating facilities with the Cooperative's distribution system and operate same in parallel with the Cooperative system.

PROVISIONS

- A. The eligible Cooperative Member shall first comply with the provisions of the Cooperative's Section III, Policy 34 - Interconnection and Parallel Operation of Distributed Generation.
- B. The Cooperative will install and maintain metering equipment capable of measuring the flow of electricity both into and out of the Member's facility at the same rate and ratio. If Member's existing meter is not capable of meeting this requirement, the cost of installing and maintaining same shall be paid by the Member.
- C. For EREGFs, the Cooperative shall measure and charge or credit for the electricity supplied to eligible Cooperative Members or provided by eligible Cooperative Members as follows:
 - 1. The Cooperative shall charge the Member for the electricity supplied to and used by the Member at the non-discriminatory retail rate the Member would have been charged for if the Member was not a Member-Owned generation billing account.
 - 2. The Cooperative shall pay for the energy supplied to the Cooperative from the Member, at a rate reflecting the current avoided energy cost. Any energy received by the Cooperative will be converted to credits by multiplying the number of kilowatt hours generated onto the distribution system by the avoided energy cost and applying that credit (in dollars or fractions thereof) against the Member's power supplier energy charge from the Cooperative, regardless if the Member is a purchaser or seller of energy that month. The Cooperative shall continue to carry over any excess credits earned and apply those credits to applicable billing periods

to offset only power supplier energy, for those applicable billing periods until all credits are used or until the end of the annual billing period, whichever occurs first.

3. At the end of the annual billing period that service is supplied by means of Member-Owned generation billing, or in the event that the Member terminates service with the Cooperative, any remaining credits in the Member's account shall expire and no credit or payment shall be due to the Member for such expired credits.
 4. Any credit to an eligible Member under this policy shall be applied only to the power supplier energy charge associated with the Member-Owned generation billing account. No part of such credit shall be applied to, and the eligible Member shall remain responsible for, (a) taxes, fees, and other charges that would otherwise be applicable to the amount of electric energy purchased by the eligible Member from the Cooperative, and (b) other charges to the eligible Member under any Cooperative policies, bylaws, rules, regulations, or rates, that are not based on a unitized charge per kilowatt-hour, including, but not limited to, power supplier demand or service delivery charges.
- D. Member will not be eligible for any incentive rates after installation of generation system.
- E. All renewable energy credits, greenhouse gas emission credits and renewable energy attributes related to any electricity produced by the eligible renewable electrical generating facility and purchased by the Cooperative shall be treated as owned by the eligible Member.
- F. The Cooperative shall provide Member-Owned generation billing to eligible Members in accordance with Wabash Valley Power Alliance's applicable policies.
- G. This policy is subject to all federal, state and local laws, the Cooperative's articles of incorporation, bylaws and existing policies and the terms and conditions of the Cooperative's existing power supply contracts and loan agreements. To the extent any provision of this policy conflicts with those obligations, those provisions are deemed null and void. This policy may be amended at any time by Board of Directors of the Cooperative and any such amendment would be effective to include Members generating electricity at that time based upon this policy and interconnection agreement.
- H. It is the Member's responsibility, if desired, to determine how their Member-Owned Generation system is affecting their MJM monthly bill.


Marcie Tonsor, Secretary

MJM Electric Member Guidelines for Electric Power Generator Installation and Interconnection

Revised 8/22/22

Preliminary work to be completed, BEFORE construction starts and things to know:

- Review MJM's Policy 34 - ***Interconnection and Parallel Operation of Distributed Generation and Policy 36 – Member-Owned Generation Billing***. Note, Policy 36 allows members to generate alternative energy to offset their purchases of energy from the Cooperative, must be in accordance to UL 1741 standards and have a nameplate capacity of 25 kW or less (AC). Excess power will be credited at the avoided cost rate and may be used towards the Power Supplier Energy Charge. Any excess generation credits left at the end of the Annual Billing Period will expire. Member will not be eligible for any incentive rates after installation of generation system such as our Electric Heat Discount.
- Complete ***the Application for Operation of Member-Owned Generation (Attachment A)*** and return the original signed copy with nameplated capacity 25 kW or less. If over 25 kW, please contact us first and we will assist you in the power purchase agreement necessary with Wabash Valley Power Alliance (WVPA).
- ***Attachment A*** requires a proposed One-line diagram, the diagram should include the metering point(s), disconnect(s), panel box(es), inverter(s), sub-meter location, and denote any battery back-ups. MJM may check out the site/existing service set-up before construction starts. Please see ***One Line Diagram Sample*** for details.
- Submit ***Equipment Specifications*** for planned distributed generation system.
- You will then receive a notification approving or denying your application. If you are approved, you may start construction.
- Schedule an appointment with our office to review and complete the ***Agreement for Interconnection and Parallel Operation of Distributed Generation (Attachment B)***.
- Member will be required to pay ***an Interconnection fee of \$600*** prior to interconnection.
- MJM requires ***\$1,000,000 liability insurance***, prior to and during interconnection, the Member must provide a current Certificate of Insurance containing a minimum (30) thirty-day notice of cancellation, change or renewal to the Cooperative. In addition, the Certificate of Insurance must list MJM as a ***Certificate Holder***. MJM must have a current certificate of insurance in the member's file at all times. Failure to maintain these requirements will result in the disconnection of the distributed generation equipment until compliant, and will be subject to disconnection/reconnection fees.

Completion of project, AFTER construction starts and things to know:

Notify MJM once construction is complete and is ready for interconnection. Please allow 1-2 weeks to coordinate and set-up the inspection and meter installations. Your distributed generation system will not be interconnected until **ALL** requirements are met.

How to Understand Your Service Meter:

The **Service meter** will be your main meter and will be used for billing. It cycles through 2 important displays DL and RC. DL stands for Delivered kWh (the power used from MJM's line). RC stands for Received kWh (the excess generation from your system put onto MJM's line). This meter only records the electricity that moves through the meter and does not meter the total production of your system. For instance, if you have only a 100W light bulb on in your home, and your solar system is producing 30W at that moment, the meter will reflect 100W-30W=70W displayed as DL. If nothing is on in your home, it would pass the 30W production through to the meter at that moment displayed as RC. If you only have a 100W light bulb on in your home, and your solar system is producing 100W at that moment, no power will be recorded through the meter. **Your inverters** will measure the total production of the system and you will need to contact you solar company to receive your total production report.

How to Read your Bill:

- **Rate Class (1,2...ect)** (the power used form MJM lines)
- **MGEN** (the excess generation put onto MJM lines)

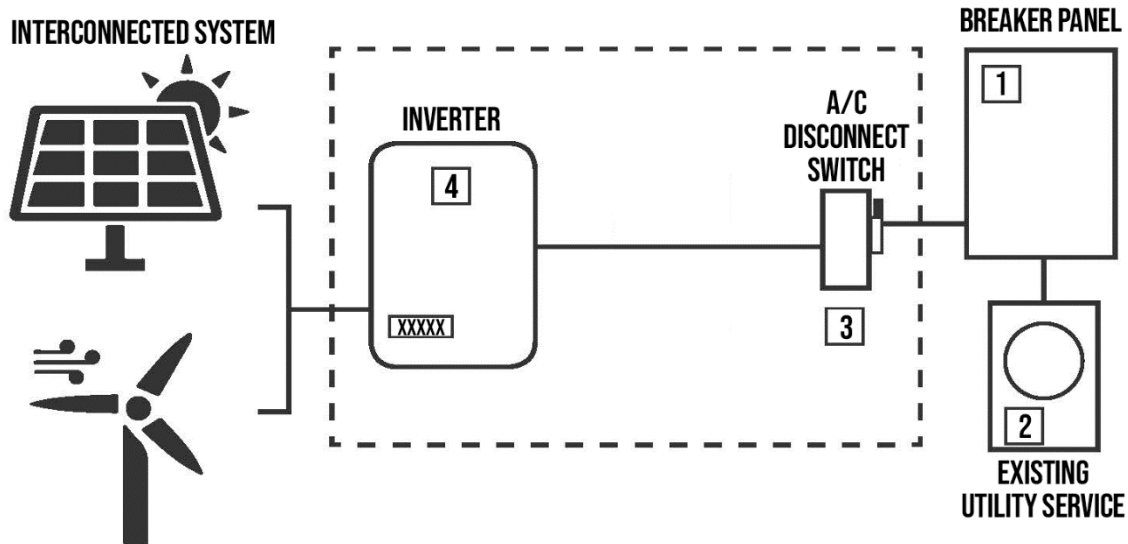
Example: **Rate Class (1,2..ect)** = 1,000 kWh (billed at our normal rate)
MGEN 300 kWh (credited at an avoided cost)

Please contact our Member Generation Representative for any questions at 217-707-6028 or email solar@mjmec.coop



One Line Diagram Example – Interconnection with MJM

This diagram shows the basic detail for interconnecting a typical solar panel to your MJM electric service panel, and as required.



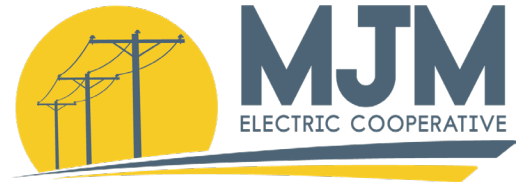
1. **BREAKER PANEL** – Distribution point for electrical circuits in your home.
2. **EXISTING UTILITY SERVICE** – Location of your existing service point, and meter location. MJM will change out the existing meter for a distributed generation meter.
3. **A/C DISCONNECT SWITCH**– Member provides and installs A/C disconnect switch. It must be visible, lockable, and located outside between the inverter (4) and breaker panel (1) base. A placard may be required denoting the location of the A/C disconnect switch if it is not located by the main service meter.
4. **INVERTER** – Member provides and installs inverter. Must be in accordance with UL 1741 standards and have a nameplate capacity of 25 Kw A/C or less.

No additional equipment shall be added to MJM poles. Any other support structure, such as a metering rack, must be at least **2ft from MJM pole**.

If your system has battery storage, please contact our Engineering Department.

Please contact our Member Generation Representative with any questions at:
217-707-6156 or solar@mjmec.coop

UNDERSTANDING YOUR MEMBER GENERATION BILL



A Touchstone Energy® Cooperative 

POWER SUPPLIER ENERGY

This charge is the wholesale power cost which covers the cost of generating and transmitting power from the power plant to MJM substations. MJM does not generate its own electricity. Instead, we purchase it wholesale from a generation and transmission cooperative in Indianapolis. Like other electric companies, MJM bases its power supplier energy charge on kilowatt hours (kWh). One kilo-watt hour is equal to 1,000-watt hours. A watt hour is the amount of energy used by a one-watt load drawing power for one hour. For example, a 100-watt light bulb uses 100 watts of power in one hour.

EXCESS MGEN BUY BACK

This is a credit, or an amount which reduces your bill, for the kWh listed on the line item called MGEN.

MGEN BANKED ACTIVITY / MGEN BANKED CREDIT APPLIED

This line on the bill indicates if credit was banked (saved for later use) or applied (used immediately). If credit is applied, the amount will not exceed the Power Supplier Energy charge amount. Credits are also referred to as the “avoided cost”. This amount resets to zero annually on Jan 1st.

DISTRIBUTION ENERGY

This charge recovers a portion of the cost to get the power from the substation to the meter and is based on kilowatt hours.

SERVICE DELIVERY CHARGE

This charge covers the cost of maintaining the equipment used to send electricity to your home. This includes the cost of transformers, meters, lines, poles, and additional operation costs. Your service delivery charge remains the same each month and is based on your power needs.

POWER COST ADJUSTMENT

This is a line item on the bill that adjusts regularly to help the co-op recuperate fluctuating purchased power costs.

POWER SUPPLIER DEMAND

This charge is for the maximum amount of electrical energy consumed during a specific time segment within a billing period and is measured in kilowatts (kW). The charge for demand changes periodically.

TAXES & ADDITIONAL SERVICES

The remaining charges on your bill are taxes and any additional services you may have with MJM, such as an outdoor lighting unit.

OPERATION ROUND UP (Optional)

The mission of the Operation Round Up® Program is to assist in strengthening the communities served by MJM Electric. Through this innovative program, the “small change” is earmarked for community betterment groups and other programs in need of financial assistance. This is an optional program so if it may not appear on your billing statement.



Please remember to contact your insurance agent and request that they annually send MJM proof of coverage required by the interconnection policy. They may send it to solar@mjmec.coop.

MJM is a distribution cooperative. It constructs and maintains the power lines and substations necessary to deliver power to their rural members but does not generate that power. MJM purchases its power wholesale from Wabash Valley Power Alliance (WVPA) in Indianapolis, Indiana. WVPA is a cooperative organization that has an alliance with more than twenty different member distribution co-ops. WVPA makes and transmits the electricity from the power plants to MJM for distribution to our members.

Example of MGEN BANKED CREDIT APPLIED (Credit used now)

Current Bill Information		
Balance Remaining Prior to This Billing		\$0.00
Power Supplier Energy	936 kWh @ 0.08663	\$81.09
Excess MGEN Buyback	706 kWh @ -0.06352	-\$44.85
MGEN Banked Credit Applied		-\$36.24
Distribution Energy	936 kWh @ 0.02497	\$23.37
Service Delivery Charge		\$54.00
Power Cost Adjustment	936 kWh @ 0.00476	\$4.46
Power Supplier Demand	8.51 kW @ 0.00	\$0.00
Outdoor Lighting		\$8.00
IL Public Utility Tax		\$3.11
New Bill Amount		\$92.94
Member-Owned Gen Credit Balance \$0.00		

Example of MGEN BANKED ACTIVITY (Saved for later)

Current Bill Information		
Balance Remaining Prior to This Billing		\$0.00
Power Supplier Energy	365 kWh @ 0.08663	\$31.62
Excess MGEN Buyback	1,007 kWh @ -0.06352	-\$63.96
MGEN Banked Activity		\$32.34
Distribution Energy	365 kWh @ 0.02497	\$9.11
Service Delivery Charge		\$54.00
Power Cost Adjustment	365 kWh @ 0.00476	\$1.74
Power Supplier Demand	7.48 kW @ 0.00	\$0.00
Outdoor Lighting		\$8.00
IL Public Utility Tax		\$1.28
Operation Round Up Donation		\$0.87
New Bill Amount		\$75.00
Member-Owned Gen Credit Balance \$144.04		

\$63.96 Excess MGEN Buyback
 -\$32.34 MGEN Banked Activity
\$31.62 Max Buyback Credit
This Cycle
 (Does not exceed Power
 Supplier Energy Charge)