

# NET METERING POLICY

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2211 Elk River Road  
Steamboat Springs, CO 80487

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Craig, CO 81625

24 Hour Emergency Service-1-888-USE-YVEA, 1-888-873-9832

**THIS DOCUMENT IS NOT VALID WHEN PRINTED.**

**FOR LATEST REVISION PLEASE VISIT**

[www.yvea.com](http://www.yvea.com)

## REVISION HISTORY

NO.	REVISIONS	DATE	APPROVAL
0	INITIAL RELEASE	12/16/2021	JSC
1	External Review	3/4/2022	JSC
2	Size Changes	1/1/2023	JM

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# NET METERING INTERCONNECTION PROCEDURE

## I. GENERAL OVERVIEW

The following Net Meter Interconnection Procedure shall apply to all Members installing energy resources that interconnect on the member side of the meter that are applying for connection to the Yampa Valley Electric Association (YVEA) for the purpose of offsetting their own usage with self-generated renewable energy. Eligible resources under this policy are defined in Attachment 1 section L “Renewable Energy”, YVEA at our sole discretion may allow resources not listed. All Net Meter Interconnections shall follow the Interconnection Policy posted on <http://www.yvea.com>.

Capitalized terms used within this document shall have the meanings specified in **ATTACHMENT 1 (DEFINITIONS)** of this document.

### A. Applicability

1. The following Application processes shall apply to any request by a Member to interconnect a Net Metered Generating Facility (GF) with the YVEA System. These GFs shall be limited to 10 kW for residential service, or 25 kW for commercial or industrial service. Members under the Irrigation Rate fall within industrial service. Members or other entities intending to interconnect a GF that do not meet these criteria shall follow YVEA’s Generator Interconnection Policy.
2. The GF shall be limited to generation constructed for the purpose of offsetting the Member’s energy usage. The GF shall be located in the vicinity of the Member’s service location, and interconnect behind the Member’s meter.
3. As a condition of interconnection with YVEA System, each Member shall comply with requirements to ensure infrastructure security, operational security, and reliability with respect to electric system equipment, operations, control hardware and software (cyber-security), as determined by YVEA or required by applicable law. YVEA shall take into account of the requirements and recommendations using best practice recommendations from the electric reliability authority and the Public Utilities Commission. The Member shall provide all security measures required by YVEA.
4. The following interconnection procedures shall apply to the interconnection of all retail renewable distributed generation and other distributed energy resources including energy storage systems that operate in parallel with and are connected to the utility, when such interconnections are not subject to the jurisdiction of FERC. This rule largely tracks the 2013 FERC amended version of the FERC 2006 Small Generator Interconnection Procedures.

### B. Pre-Application

1. YVEA, through its Energy Solutions Department, will respond to information within 15 business days about the Application process and YVEA System upon request from a

Member. Contact information shall be made available on YVEA web site (<http://www.yvea.com>).

2. YVEA shall not be required to provide information to the Member that is proprietary or confidential. All design, operating specifications, and metering data provided by the Member shall be deemed confidential information to the extent so marked or designated in writing by the Member. Confidential information does not include information previously required to be publicly submitted or disclosed to governmental authorities (after notice to the other Party and after exhausting any opportunity to oppose such publication or release), or necessary to be disclosed in an action to enforce any agreement, including an Interconnection Agreement entered into between YVEA and the Member.
3. A Member may submit a formal written request for a pre-application report on a proposed interconnection at a specific site using a form supplied by the utility, unless such information is confidential and cannot be provided pursuant to a confidentiality agreement. The utility may charge up to a Commission-approved fee for the pre-application report. Upon completion, each pre-application report shall be dated and publicly posted to the utility's website with any customer identifying information redacted.

### C. Application Contents

1. The Member shall submit an Application/Agreement (see **ATTACHMENT 4**) to YVEA as required in this Procedure, together with the processing fee or deposit specified in the Application. The Application shall be electronically date stamped upon receipt of application and confirmation of deposit clearing. The date stamp applied to the Application at the time of its original submission shall be accepted as the qualifying date stamp for the purposes of any timetable in this Procedure.
2. The Application shall include the following information:
  - a. Site Diagram: this should indicate the physical address of the interconnecting GF, primary buildings & structures, relative location of generators, solar panel arrays and/or batteries, inverters (if applicable), AC disconnect switch, utility revenue meter, main service panel, and transformer. Clearly indicate distance between the inverter and the utility meter.
  - b. One-Line Diagram of System: this should include cable & conduit schedule that includes lengths and sizes for all conductors, power rating for generator, ratings of interrupting breakers, DC and AC disconnects, ratings of inverters (if applicable), any applicable protection (relays, etc.), and other components when applicable. Clearly state the system design rating (kW DC and kW AC) on this diagram. The One-Line Diagram shall also include any provisions for backup/standby power, including energy storage (battery) systems.
  - c. Data & Analysis for Determining System Size. The member can find their historical usage either via SmartHub (<https://yvea.smarthub.coop/Login.html>) or the top of their bill. The usage will help the member calculate the size of the system that they

can build to offset their consumption. YVEA recommends that the generation stay below 120% of the members previous years kWh consumption.

- d. Datasheet(s) for Generator or Energy Source / Inverter System (if applicable) / Combiner Box (if applicable) / AC Disconnect(s) / Transfer Switch (if applicable) / Battery (if applicable)
- e. Voltage Rise Calculations (if inverter is more than 50' from utility meter)
- f. Site Control Documentation
  - a. This can be either:
    - i. the contract between the installer and our member
    - ii. the county record with a Parcel ID that shows the members name on it, that also matches the interconnection application. Typically, the county record is a google earth overview with the Parcel ID/description overlaid on top.
  - g. Signage and Placard showing the generation location relative to the house, AC Disconnect, and Meter.
  - h. Certificate of Insurance
  - i. Operational Test Plan. This should include steps for testing the inverter(s) automatic rapid shutdown functionality and system reconnect delay. For three-phase interconnections, both three-phase and single-phase testing are required.
  - j. Application Fee- This can either be mailed to 2211 Elk River Road, Steamboat Springs, CO 80487 or paid electronically via <https://www.yvea.com/pay-your-solar-application-fee>.
3. The Installer shall be notified of receipt of the Application by YVEA within three (3) business days of such receipt.
4. YVEA shall notify the Installer within ten (10) business days of the receipt of the Application as to whether the Application is deemed by YVEA to be complete or incomplete.
  - a. If the Application is incomplete, YVEA shall provide a deficiency notice, specifying the information that must be provided to complete the Application.
  - b. The Member will have ten (10) business days after receipt of such deficiency notice to submit the listed information.
  - c. If the Member does not provide the listed information or a request for an extension of time by the date specified in b), the Application will be deemed withdrawn.
  - d. An Application will be considered complete only upon submission of the information required by the deficiency notice to YVEA.

5. YVEA shall receive, process, and analyze each Application in a timely manner as set forth in this Procedure. YVEA shall use the same reasonable efforts in processing and analyzing each Application from all Members.
6. YVEA shall maintain records for three (3) years, subject to audit, of each Application received under this procedure, the times required to complete Application approvals and disapprovals, and justification for the actions taken on each Application.
7. YVEA shall at its own discretion, determine the need for system studies. YVEA shall coordinate and/or conduct any such studies to determine the impact of the Application on affected systems with affected system operators and, if possible, include those results (if available) in its applicable interconnection study. YVEA will include such affected system operators in all meetings held with the Member as required by this Procedure. The Member will cooperate with YVEA in all matters related to the conduct of studies.

#### **D. Modification of the Application**

1. Any material modification of the project equipment, project design, or location of the project not otherwise agreed to in writing by YVEA and the Member shall be deemed a withdrawal of the Application. Member shall notify YVEA in a timely manner of any material modification of the project equipment, project design or location of the project.

#### **E. Site Control Documentation**

1. Site control shall be submitted with the Application.
2. Site control may be demonstrated by any of the following methods:
  - a. Ownership of, a leasehold interest in, or a right to develop the site for constructing the GF; or
  - b. An exclusivity or other business relationship between the Member and the entity having the right to sell, lease, or grant the Member the right to possess or occupy a site for such purpose.
  - c. For inverter based generating facilities, proof of site control may be demonstrated by the IC's signature on the interconnection application.

#### **F. Queue Position**

1. YVEA shall place each Application in a first come, first served order per feeder and per substation based upon the date stamp of the Application.
2. The order of each Application will be used to determine the cost responsibility of the Member for any System upgrades that YVEA determines are necessary to accommodate the interconnection. The Member(s) whose interconnection causes the need for such upgrades shall be responsible for up to one hundred percent (100%) of such costs, subject to YVEA requiring later contribution toward such costs by Members that interconnect after completion of the System upgrades and that YVEA determines benefit from such

upgrades. YVEA shall allocate such costs in a manner it deems to be consistent with industry practice.

3. Applications may be grouped together for study purposes at the option of YVEA. In the event that systems are grouped together and the study results in system upgrades, those system upgrades will be split pro rata by size against the cost of upgrades.

## **G. Regulatory Approvals, Permits, and Certification**

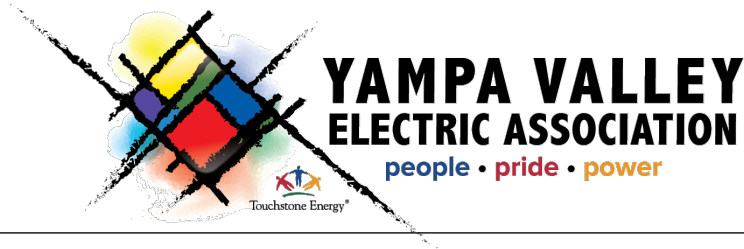
1. The Member shall be solely responsible for compliance with all applicable laws, regulations, codes, and standards of any government agency respecting construction, installation, and electrical interconnection of the GF or obtaining waivers or exemptions thereof from the applicable government agency and shall provide evidence thereof to YVEA as a condition of approval of its Application. YVEA shall assist the Member in confirming the applicable requirements.
2. In connection with submitting an Application, the Member shall obtain certification that its facilities comply with the codes and standards set forth in **ATTACHMENT 2** and so certify to YVEA.

## **H. Execution of Interconnection Agreement**

1. When the Member submits the Interconnection Application, this serves as the Interconnection Agreement. The Interconnection Agreement will be considered final when the Member or installer receives an executed copy back from YVEA.
2. After the Interconnection Agreement is signed by the Member and YVEA, the interconnection of the GF shall proceed under the provisions of the Interconnection Agreement, provided that in case of any conflict between the specific terms of the Interconnection Agreement and this Procedure and/or Guidelines, the terms of the Interconnection Agreement shall govern.

## **I. Limitation of Interconnection Approval**

1. Approval of the Interconnection to YVEA system shall be conditioned on:
  - a. YVEA being satisfied that all requirements for system safety, protection, and reliability are met, as determined in connection with approval of the Application
  - b. Execution by Member of an Interconnection Agreement with YVEA
  - c. All costs of interconnection, including any required system upgrades, being paid by Member, subject to Member providing security for such payments that is acceptable to YVEA, except as otherwise agreed by YVEA, including, but not limited to costs of studies required, meter installation, testing and maintenance, operating expenses, including communication circuits, protective device installation and testing, and review and inspection of design and test witnessing.



Any costs detailed in the generation Interconnection Agreement between YVEA and the Member shall take precedence over this Procedure.

2. YVEA shall endeavor to provide for interconnection within the period agreed upon with the Member but shall not be responsible for changes to estimated dates for completion of any system upgrades and/or interconnection due to changes to Member's completion schedule, contractor work schedule, system maintenance, force majeure or uncontrolled events, requirements of law or scheduling.

## J. Insurance

1. For systems of ten (10) kW or less, the Member, at their own expense, shall secure and maintain in effect during the term of the agreement liability insurance with a combined single limit for bodily injury and property damage of not less than \$300,000.00 for each occurrence.
2. For systems above ten (10) kW but not more than twenty-five (25) kW, the Member, at their own expense, shall secure and maintain in effect during the term of the agreement liability insurance with a combined single limit for bodily injury and property damage of not less than \$1,000,000.00 for each occurrence.
3. Such liability insurance shall provide, by endorsement to the policy, that YVEA shall not be reason if its inclusion as an additional insured incur liability to the insurance carrier for the payment of premium of such insurance.
4. For all systems, the liability insurance shall not exclude coverage for any incident related to the subject GF or its operation.
5. Certificates of Insurance evidencing the requisite coverage and provision(s) shall be furnished to YVEA prior to the date of interconnection of the GF.
6. YVEA shall be permitted to periodically obtain proof of current insurance coverage from the generating Member to verify proper liability insurance coverage. The Member will not be allowed to commence or continue interconnected operations unless evidence is provided that satisfactory insurance coverage is in effect always.

## II. EVALUATION OF NET METERED GF APPLICATION

This process shall be used for evaluating any Application for interconnection of a certified GF no larger than ten (10) kW for residential service locations, or twenty-five (25) kW for commercial, or industrial service locations. These interconnections shall meet the codes, standards, and certification requirements of **ATTACHMENT 2** of this procedure.

- A. The Member must complete the Application and submit it to YVEA based on the process described above in I. C. (Application).
- B. Within fifteen (15) business days after notification by YVEA that the application is complete, YVEA will conduct an initial review, which shall include the following screening criteria:



1. For interconnection of a proposed GF to a radial distribution circuit, the aggregated generation, including the proposed GF, shall not exceed fifteen percent (15%) of the Line Section annual peak.
  2. The proposed GF capacity shall not exceed the rating of the existing YVEA service entrance equipment. If the proposed GF is to be interconnected on a transformer serving more than one service location, the GF kW capacity shall not exceed the Applicant's pro-rata share of the service transformer's kVA rating. If the proposed GF is to be interconnected on single-phase shared secondary, the aggregate generation capacity on the shared secondary, including the proposed GF, shall not exceed ten (10) kW. If the proposed GF is single-phase and is to be interconnected on a center tap neutral of a 240-volt service, its addition shall not create an imbalance between the two sides of the 240-volt service of more than twenty percent (20%) of the nameplate rating of the service transformer.
  3. Any modification of YVEA system required to accommodate the GF shall be paid for by the Applicant
- C. If, having deemed the Application to be complete, YVEA finds that the Application satisfied the requirements described above and that the GF can be interconnected safely and reliably to its system and the Member is otherwise in compliance with the applicable requirements of the procedure, YVEA shall notify the Member that its application is accepted. YVEA shall endeavor to complete processing of the Application within five (5) business days of the Application being deemed complete. After processing of the Application is complete, an executable Interconnection Agreement will be provided to the Member within five (5) days.
- D. Upon completion of construction of the GF, and passing inspections by responsible local AHJs, the Member shall submit a signed Certificate of Completion (Attachment 5) to YVEA. This Certificate notifies YVEA that the GF is ready for YVEA's final on-site operational testing and inspection. This testing will be scheduled within ten (10) business days of the Member's notification that construction of the GF has been completed.

### **III. COMMISSIONING, INSPECTION AND TESTING REQUIREMENTS**

#### **A. Completion and Commencement of Parallel Operation**

1. The Member shall not operate in parallel until a witness test has been performed or waived (in writing) by YVEA.
2. YVEA shall inspect the GF for compliance with the Member's approved design plans, and with other applicable requirements. YVEA shall witness operational tests of the inverter(s). Once successful testing has occurred YVEA will replace the existing utility revenue meter with a net meter capable of registering bi-directional energy flow.
3. YVEA will notify the Installer in writing, fax, or email if the results of its inspection and testing and whether interconnection of the GF is authorized. Such notification shall occur within five (5) business days after the inspection and witness testing specified herein. If the witness test is not satisfactory, YVEA has the right to disconnect the GF. An additional

witness test may be scheduled by YVEA within ten (10) business days following the Member's notice to YVEA that it has corrected the deficiencies identified by YVEA in its notification to the Member of a failed test.

## **B. Commissioning & Testing**

1. Testing of the Member's installed equipment shall be performed pursuant to applicable codes and standards, including IEEE 1547.1 2018-IEEE Standard for Interconnection and Interoperability of Distributed Energy Resources with Associated Electrical Power System Interfaces. These tests shall include automatic rapid shutdown and delayed reconnection tests. For the purpose of testing, voltages & currents will be measured on the GF's terminals of the utility AC disconnect switch.
2. The Member's system must cease to energize the YVEA grid when the generator is subjected to islanding conditions. The Member's system must immediately, completely, and automatically disconnect from the YVEA grid in the event of a fault on the Member's system, a fault on the YVEA electric system, or loss of source power from YVEA. For three-phase systems, the Member's system must immediately, completely, and automatically disconnect from the YVEA grid in the event of any partial open-phase condition occurs on the Member's system.
3. Upon detection of adequate YVEA system voltage, the Member's inverter(s) must monitor the YVEA system for no less than five (5) minutes of normal operation before automatically reconnecting to the system.
4. A representative of the Member's GF installer must be present to perform commissioning & testing. YVEA representatives may not operate the Member's GF.
5. For instances where the Member's GF installer misses a scheduled appointment without reasonable prior notice, YVEA may invoice the Member the cost of a truck roll and staff time. Please reach out to YVEA's Energy Resource group for this fee.

## **IV. MAINTENANCE, INSPECTION, DISCONNECTION and CONTINUED OPERATION**

1. YVEA has the right to inspect the GF from time to time on demand, to ensure conformance with the representations made in the Application and any terms of the Interconnection Agreement.
2. Before YVEA disconnects the Member's GF from its system, it shall furnish a disconnection notice specifying the required maintenance, modification of facilities or changes in operation or repairs required to be made to protective equipment.
  - a. If the Member performs the specified maintenance, modifications or changes in operation or repairs, prior to the disconnection, the Member shall notify YVEA.

- b. YVEA shall re-inspect the facilities and if the facilities are found to be following the required measures, the disconnection shall be cancelled.
  - c. If YVEA finds non-compliance with the required measures, it may disconnect the GF as specified in the disconnection notice.
  - d. Nothing herein shall prevent YVEA from disconnecting the GF in case of an emergency.
3. If a member sells their home with a net metered GF, then the new homeowner will be required to submit an application following Section H and shall maintain the insurance requirements listed under Section J.

## **V. Net Meter Billing and Rates**

1. The purpose of this policy is to allow YVEA Members to offset their energy consumption with their GF.
  - a. All generation that is consumed by the Member across the Annual Period will offset at YVEA's retail rate.
  - b. On a monthly basis, YVEA will track the generation that YVEA receives from the Member's GF. When there is excess generation during the certain Billing Period, this generation will go into the Member's Banked Usage Account. If the Member's GF generates less energy than the Member consumed during a certain Billing Period, and there is energy in the Banked Usage Account, the consumption will be subtracted from the Banked Usage Account.
  - c. Any generation that is left in the Members Banked Usage Account that was accrued across the Annual Period bill be paid at the current Rate 50.
    - i. The Annual Period for Small, Medium, and Large General Service shall be from the first of March to the last day of February.
    - ii. The Annual Period for Irrigation shall be from the first of November to the thirty first of October.
  - d. YVEA has the option to assume any Renewable Energy Credits (RECs) and claiming of renewable attributes associated with banked usage that was procured as a result of the true up from the Annual Period.

## **VI. Community Solar**

1. If a Member choses to participate in both net metering and community solar, the Member will first receive credit from their net metered GF, then their community solar ownership.

## ATTACHMENT 1 (DEFINITIONS)

- A. **Application**-The Member's request to interconnect a new Generating Facility, or to increase the capacity of, or make a material modification to the operating characteristics of, an existing Generating Facility that is interconnected with the YVEA system.
- B. **Annual Period**- A twelve-month period as further defined in Section V, subsection c.
- C. **Banked Usage**- As defined in Section V, subsection b.
- D. **Billing Period**- A cycle that occurs 12 times during the calendar year where YVEA takes the meter readings and bills the Member for their electric consumption.
- E. **Business Day**-Monday through Friday, excluding Federal Holidays.
- F. **Certified or Certification**-With reference to a Generating Facility, meeting the codes and standards set forth in **ATTACHMENT 2** to this procedure, to the satisfaction of Yampa Valley Electric Association.
- G. **Generating Facility (GF)**-The Member's equipment for the production of electricity as identified in the Application, not including the Interconnection Facilities not owned by the Member, as schematically depicted in the application.
- H. **Interconnection Agreement**-An agreement between YVEA and the Member to allow the interconnection of a GF to the YVEA system.
- I. **Line Section**-A portion of the YVEA System connect to the Member at the Point of Interconnection, bounded by automatic sectionalizing devices or the end of the distribution line.
- J. **Member**-Any entity, that proposes to interconnect or that has a Generating Facility that is interconnected with the YVEA system. Member may also refer to the installer of the generation project.
- K. **Member Options Meeting**-A meeting held with YVEA and Member to discuss available options if the Application cannot be approved.
- L. **Net Metering**-YVEA shall allow the Member's retail electricity consumption to be offset by the electricity generated from "Eligible Renewable Energy Resources" (ERR) in accordance with the Renewable Energy Net Metering Service as described in YVEA's Electric Tariffs, Rules and Regulations. A Net Meter is one capable of registering bi-directional energy flows and is used when a Producer's GF may produce excess energy that is delivered to a utility's grid.
- M. **Party or Parties**-YVEA, Member or any combination of the above.

N. **Point of Interconnection**-The point where the Member's Interconnection Facilities connect with the YVEA System. The location of the Point of Interconnection will be determined by YVEA in accordance with standard industry practice or as individual circumstances may dictate.

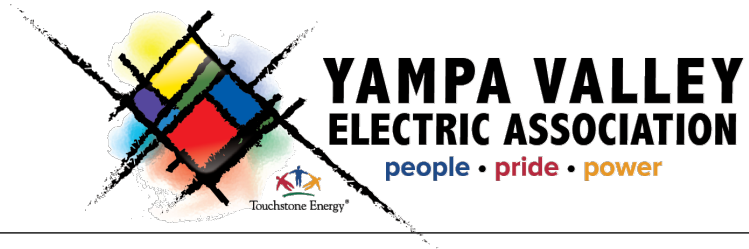
O. **Renewable Energy**-Energy generated from an “Eligible Renewable Energy Resource” or “ERR” including a solar, wind, geothermal, or biomass generation facility, or a hydroelectric facility with a nameplate rating of ten (10) MW or less, that meets the standards for an eligible renewable energy resource as set forth by the PUC pursuant to [§40-2-124, C.R.S.](#)

P. **Renewable Energy Credits (RECs)**-“Renewable Energy Credit” or “REC” has the meaning set forth in to [§40-2-124, C.R.S.](#), as may be amended from time to time or as further defined or supplemented by Law, and any regulations adopted pursuant to this section, and for purposes of these rules shall be deemed to include any and all rights to credits, benefits, emissions reductions, offsets, and allowances, howsoever entitled, attributable to generation from renewable energy sources and/or displacement of conventional energy generation.

Q. **System**-The facilities owned, controlled, or operated by YVEA that are used to provide electric service under its tariff.

## **ATTACHMENT 2 (CERTIFICATION CODES & STANDARDS)**

1. IEEE 1547 Standard for Interconnecting Distributed Resources with Electric Power Systems (including use of IEEE 1547.1 testing protocols to establish conformity).
2. UL 1741 Inverters, Converters, and Controllers for use in Independent Power Systems.
3. IEEE Std. 929-2000 IEEE Recommended Practice for Utility Interface of Photovoltaic (PV) Systems NFPA 70 (2005), National Electrical Code.
4. IEEE Std. C37.90.1-1989 (R1994), IEEE Standard Surge Withstand Capability (SWC) Tests for Protective Relays and Relay Systems.
5. IEEE Std. C37.90.2 (1995), IEEE Standard Withstand Capability of Relay Systems to Radiated Electromagnetic Interference from Transceivers.
6. IEEE Std. C37.108-1989 (R2002), IEEE Guide for the Protection of Network Transformers.
7. IEEE Std. C57.12.44-2000, IEEE Standard Requirements for Secondary Network Protectors.
8. IEEE Std. C62.41.2-2002, IEEE Recommended Practice on Characterization of Surges in Low Voltage (1000V and Less) AC Power Circuits.
9. IEEE Std. C62.45-1992 (R2002), IEEE Recommended Practice on Surge Testing for Equipment Connected to Low-Voltage (1000V and Less) AC Power Circuits.
10. ANSI C84.1-1995 Electric Power Systems and Equipment-Voltage Ratings (60 Hertz).
11. IEEE Std. 100-2000, IEEE Standard Dictionary of Electrical and Electronic Terms
12. NEMA MG 1-1998, Motors and Small Resources, Revision 3
13. IEEE Std. 519-1992, IEEE Recommended Practices and Requirements for Harmonic Control in Electrical Power Systems.
14. NEMA MG 1-2003 (Rev 2004), Motors and Generators, Revision 1.



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## ATTACHMENT 3 (reserved for future use)



# YAMPA VALLEY ELECTRIC ASSOCIATION

people • pride • power

## ATTACHMENT 4

### Interconnection/Net Metering Application and Agreement

*This application is considered complete when all applicable information below is supplied and YVEA staff has authorized construction. Additional information to evaluate the application may be required. Submit application to: [interconnections@yvea.com](mailto:interconnections@yvea.com)*

#### Processing Fee

A non-refundable fee of **\$250.00** must accompany all applications.

Checks can be mailed to: Attn: Interconnections Department  
2211 Elk River Road  
Steamboat Springs, CO 80487

Electronic Payments can be made at:  
<https://www.yvea.com/pay-your-solar-application-fee>

### Generator Owner Information

Name: \_\_\_\_\_

YVEA Account #: \_\_\_\_\_ YVEA Meter #: \_\_\_\_\_

Service Address: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Email: \_\_\_\_\_ Phone #: \_\_\_\_\_

Has member lived at this current location for more than 1 year? Yes No

Does the member live at the residence full time? Yes No

Does the Member have or plan to have an Electric Vehicle (EV) in the next 3 years? Yes No

Does the member participate in or have ownership in any community solar projects<sup>1</sup>? Yes No

Does this service address currently participate in net-metering? Yes No

### Installing Contractor

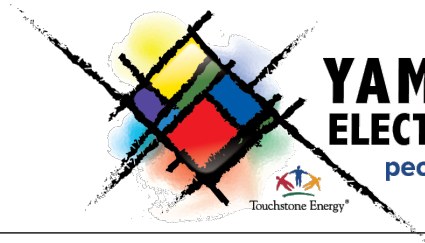
Company: \_\_\_\_\_ Point of Contact: \_\_\_\_\_

Email: \_\_\_\_\_ Phone #: \_\_\_\_\_

Mailing Address: \_\_\_\_\_  
\_\_\_\_\_

<sup>1</sup> If member partakes in any community solar projects, please reach out to [interconnections@yvea.com](mailto:interconnections@yvea.com) or 970-871-2288.





**Generator Information**

Estimated Install Date: \_\_\_\_\_ Estimated Inservice Date: \_\_\_\_\_  
AC Nameplate kW Capacity: \_\_\_\_\_ Expected Yearly (AC) Energy Production: \_\_\_\_\_  
Generation Type- PV: \_\_\_\_ Hydro: \_\_\_\_ Wind: \_\_\_\_ Other: \_\_\_\_\_  
Check one: Single Phase: \_\_\_\_ Three Phase: \_\_\_\_ Is the equipment UL 1741 listed? Yes No  
Inverter Physical distance from utility Meter (If applicable): \_\_\_\_\_  
Battery Storage: Yes No AC Battery Storage Name Plate: \_\_\_\_\_  
Battery Storage Manufacturer & Model: \_\_\_\_\_  
Battery Storage Size: \_\_\_\_\_ Battery Storage Location: \_\_\_\_\_  
Transfer Switch Manufacturer & Model: \_\_\_\_\_  
Will the battery serve the whole house or critical loads? \_\_\_\_\_

**Grant of Authority**

- I hereby appoint and authorize the contractor listed above to act on my behalf in all manners relating to my Interconnection/Net Metering application, including but not limited to, the authority to (i) request, access and receive information directly from YVEA, on my behalf, all information and documentation relating to my proposed project, and (ii) make decisions and execute agreements, if required, regarding my proposed project.
- This Grant of Authority shall remain in effect until YVEA receipt of written termination of such Grant of Authority by the member or resubmittal of an updated Interconnection/Net Meter Application.

\_\_\_\_\_ **Members Initials**

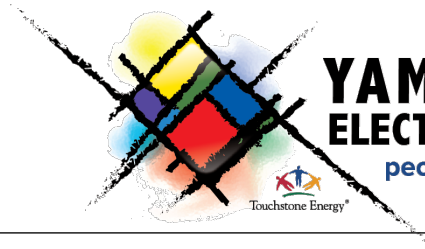
**Other Regulatory Approvals**

I acknowledge there are other regulatory agencies that require approvals for a generation system other than YVEA and that it is my responsibility to obtain such approval prior to installation. I understand that failure to obtain such approval from these agencies could delay or change the outcome of my system.

\_\_\_\_\_ **Member's Initials**

## Acknowledgements

- This application is required to request the interconnection (grid-tied) of a generator to YVEA's electrical distribution system. This application is specifically intended for net-metering of a generator at the member's service location.
- Sizing and General Requirements:
  - Generators cannot exceed one hundred and twenty percent (120%) of the members previous year kWh usage per service location with a max instantaneous output of twenty-five (25) kW for small general service and one hundred and fifty (150) kW for medium and large general service.
  - For previous years usage, sum the kWh located at the top right of your YVEA bill or via SmartHub at <https://yvea.smarthub.coop/>.
  - Member must provide proof of liability insurance with a minimum amount of \$300,000 upon the initial installation and thereafter on an annual basis.
- The generator shall meet YVEA's Interconnection Policy and go through YVEA's Energy Solutions group for review.
- Inspection Requirements
  - Inspection requirements will vary by generation type. Please review the appropriate inspection requirements that can be found at <https://www.yvea.com/member-solar>.
  - Member understands that proof of compliance with these requirements will be necessary prior to the operation of the generator.
  - State or county inspection must be done prior to the YVEA inspection.
  - Installer familiar with the installation must be present during the YVEA inspection. If installer is a no-show at scheduled inspection, installer will be charged a \$339.39 no show fee.
  - System must match the system that was approved by YVEA during our application review. Any changes will have to be approved by YVEA.
- Member Acknowledgements
  - Member acknowledges that by approving the installation of the proposed system, YVEA does not guarantee or warrant production equal to the installed capacity of the generator, the success of the generator, or the overall performance of the system. YVEA is only responsible for approving interconnection of the generator to YVEA's system in a manner that is consistent with YVEA's rules and regulations.
  - YVEA's current general services rates are broken into two segments, the energy rate and the System Access Cost. The energy rate covers energy received from YVEA in the form of kWh. The System Access Cost is a flat monthly charge that covers poles, wires, staffing and other system related items that are still needed by net metered services, and therefor is not a charge that will be offset by generator production. I hereby acknowledge that YVEA's energy rate and system access cost could change in the future. Go to <https://www.yvea.com/yvea-rates-colorado-and-wyoming> for additional rate schedule information.



- Member Acknowledges that if this generation system causes the power quality to fall outside of YVEA parameters, YVEA has the right to disconnect my electrical service. YVEA staff will reach out to you prior to the disconnect.
- Member acknowledges that this application is also the Interconnection Agreement, and when YVEA sends notification that the system is approved for construction, YVEA considers the Interconnection Agreement complete.

I hereby certify that, to the best of my knowledge, the information provided in this Application is true. I have read and agree to abide by YVEA's Interconnection Policy, this, if this generation system cause the power quality to fall outside of YVEA parameters, YVEA has the right to disconnect my electrical service. I will provide YVEA with the Certificate of Completion when the generator has been installed. YVEA has the right to enforce curtailment for reliability, economic, safety or any other reason deemed appropriate for system operation reasons.

\_\_\_\_\_  
Signature (Member/Generator Owner)

\_\_\_\_\_  
Date

**Systems shall NOT be energized, except for testing purposes, until the state or county electrical inspection and YVEA's final inspection has occurred.**

### Documents Required for Submittal

#### Checklist: (Documents included with Interconnection Application for Review):

\_\_\_ Site Diagram: include relative location of energy source(s), inverter(s), AC disconnect switch, utility revenue meter, main service panel, and utility transformer.

\_\_\_ One-Line Diagram of System: include lengths and sizes for all conductors, maximum power rating for energy sources, rating of interrupting breakers, DC and AC disconnects, ratings of inverter(s), distance of inverter from utility meter, any applicable protection (fuses, etc.), and other components when applicable.

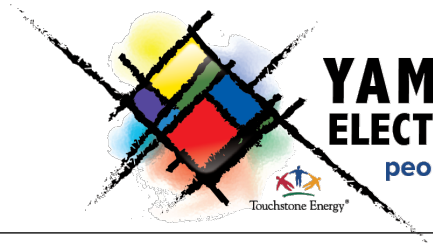
\_\_\_ Voltage Rise Calculations (if inverter is more than 50' from utility meter)

\_\_\_ Data and calculations for determining generation system size (historical yearly kWh usage, make a note for new or future loads, forecasted yearly production in kWh for the new generation system)

\_\_\_ Datasheet for Energy Source(s)

\_\_\_ Datasheet for Inverter(s)

\_\_\_ Datasheet for transfer switch (if applicable)



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- 
- \_\_\_ Datasheet for AC Disconnect
  - \_\_\_ Site Control Documentation
  - \_\_\_ Operational Testing Plan
  - \_\_\_ Documentation and location of signage (must use Phenolic Labels)
  - \_\_\_ Certificate of Personal Liability Insurance
  - \_\_\_ Application Fee

---

Signature (Installer)

---

Date

## YVEA Energy Solutions Review

YVEA Use Only

SO Number: \_\_\_\_\_

At this time YVEA staff has approved this Interconnection Application and Agreement. This installation described above is approved for construction.

---

Signature (YVEA Staff)

---

Date

---

Title



## ATTACHMENT 5

### Interconnection/Net Metering Certificate of Completion

Upon receipt of this Certificate of Completion, YVEA will schedule its final inspection. Installer is required to be onsite during the final inspection, and qualified to operate and test the system. The system must pass YVEA's final inspection before parallel operation with YVEA's electrical distribution system will be allowed.

Service Order #: _____	Production Date: _____
<b>Completed System Information</b>	

Generator Owner: \_\_\_\_\_

Generator Address: \_\_\_\_\_

YVEA Account #: \_\_\_\_\_ YVEA Meter #: \_\_\_\_\_

AC Nameplate kW: \_\_\_\_\_ Annual Expected kWh Generation: \_\_\_\_\_

Capacity Factor: \_\_\_\_\_ Number of Panels: \_\_\_\_\_

Array Orientation (azimuth): \_\_\_\_\_ (180 is south, 90 is east, 270 is west)

Inverter Manufacturer & Model: \_\_\_\_\_

Inverter Nameplate Rating: \_\_\_\_\_

AC Disconnect Type and Location: \_\_\_\_\_

Storage Manufacturer & Model: \_\_\_\_\_

Storage Nameplate Rating: \_\_\_\_\_ Annual Expected kWh Generation: \_\_\_\_\_

Transfer Switch Manufacturer & Model: \_\_\_\_\_

All Equipment UL1741 Listed? YES          NO

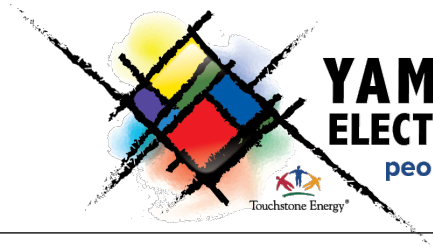
Installers Initial: \_\_\_\_\_ Installation will meet YVEA at service location for final inspection

### Hardware & Installation Compliance

The system has been installed in compliance with IEEE Standard 929-2000, Recommended Practice for Utility Interface of Photovoltaic Systems; YVEA's Interconnection Standards; and with applicable requirements of local electrical codes and the National Electrical Code ® (NEC).

Members Initial: \_\_\_\_\_

Installers Initial: \_\_\_\_\_



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## Other Regulatory Approvals

*\*Routt & Moffat Counties require a solar permit.*

County: \_\_\_\_\_

Permit #: \_\_\_\_\_

\_\_\_\_\_ **Installer's Initial**

## System Owner & Installing Contractor Signatures

I have read and agree to abide by YVEA's Interconnection Standards, thus, if this generation system causes the power quality to fall outside of YVEA parameters, YVEA has the right to disconnect my electrical service. YVEA staff will reach out before taking action on disconnecting electrical service.

I hereby certify that the information provided in this Certificate of Completion is true and accurate.

\_\_\_\_\_  
Members Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Installers Signature

\_\_\_\_\_  
Date

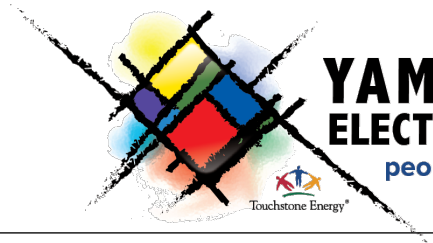
## Required Documentation and Acknowledgements Before Inspection

As a condition of interconnection, you are required to send a copy of the following documentation to YVEA:

- \_\_\_\_\_ Interconnection/Net Metering Application
- \_\_\_\_\_ Certificate of Completion
- \_\_\_\_\_ Signed State Electrical Permit
- \_\_\_\_\_ Copy of Homeowners Insurance.
  - 25kW or smaller systems, personal liability showing \$300,000
  - Commercial systems or systems greater than 25kW to 150kW, general liability showing \$1,000,000

Email: [interconnections@yvea.com](mailto:interconnections@yvea.com)

Upon receipt of this Certificate of Completion, YVEA will schedule its final inspection. Installing Contractor is required to be onsite during the final inspection. The system must pass YVEA's final inspection before parallel operation with YVEA's electrical distribution system will be allowed. If the installing contractor does not call to cancel or does not show up at inspection YVEA will charge \$339.39 for the crew and travel fee.



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## YVEA Inspection and Acknowledgements

YVEA staff must inspect generation systems to ensure that said system complies with YVEA's Interconnection Standards.

- Generation System aligns with the design that was submitted and approved in the Interconnection/ Net Metering Application
- System shut down accordingly with the simulation of a grid outage
- System responded accordingly with the simulation of a return from a grid outage
- Signage aligns with requirements
- Meter was replaced with a Net Meter
- Meter shows generation from generation systems (if possible)

At this time, an authorized YVEA Representative has completed the inspection and gives the authorization for said generation system to begin parallel operation with YVEA's electrical distribution system.

\_\_\_\_\_  
Authorized YVEA Representative Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Installers Signature

\_\_\_\_\_  
Date