Y-W ELECTRIC ASSOCIATION, INC.
P.O. BOX Y • 26862 U.S. HWY 34 • AKRON • COLORADO • 80720
(970) 345-2291 • 800-660-2291 • Fax (970) 345-2154 • www.ywelectric.coop
A Touchstone Energy ® Cooperative

SHORT-FORM INTERCONNECTION APPLICATION AND AGREEMENT FOR INVERTER UP TO 25 kW

FOR Y-WEA OFFICE USE ONLY			
		Initial Application Received	
	3 days after initial receipt	Applicant Notified of Receipt	
	10 days after initial receipt	Applicant Notified of Incomplete Application	
	10 days after notification	Supplemental Information or Revised Application Received	
	10 days after receipt	Application Determined to be Complete • APPLICATION PLACED IN QUEUE •	
	3 days after complete	Applicant Notified of Complete Application	
	10 days after complete	Application Fails Technical Evaluation Screens	
	10 days after failure	Applicant Choice (circle one): Withdrawn *or* Converted to L2	
	10 days after complete	Application Passes Technical Evaluation Screens	
	10 days after approval	Executed Agreement Returned to Customer	
		Meter Release Received from State Electrical Inspector	
		Certificate of Completion Rec'd from Customer/Installer	
	10 days after CoC Received	Failure of Safety Test and Inspection	
		Revised Cert of Completion Rec'd from Customer/Installer	
	10 days after CoC Received	Safety Test & Meter Changes Complete, Verbally Authorized	
	10 days after CoC Received	Cert of Completion Executed and Returned to Customer	

Last Reviewed: June 18, 2019
Last Updated: June 18, 2019

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Short-Form Interconnection Application and Agreement for Inverter-based Systems up to 25 kW

This application must be completed and returned to Y-W Electric Association's Engineer as per the requirements in *Attachment 2 – Applicability of Requirements and Generator Interconnection Procedure* in order to begin processing the request. Please refer to the Generator Interconnection Procedure (in particular the sections entitled *Requirements for ALL Interconnection Applications* and *Level 1 Interconnection Request*) for additional information. A processing fee of $750 must accompany this application unless a Pre-Application Interconnection Data Form was previously submitted with a payment of $100 to receive Y-WEA system data at the proposed interconnection location, in which case a processing fee of $650 must accompany this application.

PART 1 - INTERCONNECTION CUSTOMER DATA

If this is a Net Metering or self-generation installation, this section must contain the information for Y-WEA's Member. If this is an interconnection for the purposes of selling the generated energy to another party, this section must contain the information for the primary or principal owner of the generating facility.

Interconnection Customer Name:	Best Phone Number:		
Mailing Address:	City:	State:	ZIP Code:
Email Address:	Contact Person (if the customer is a company):		

PART 2 – ENGINEERING FIRM DATA

This section must be filled out if an Engineering Firm is being retained for this project and will need to receive communication on behalf of the Interconnection Customer relating to this proposed project. The primary contact listed below may also designate additional personnel from the same firm to participate in communications regarding this project.

Engineering Firm Name:	Best Phone Number:		
Mailing Address:	City:	State:	ZIP Code:
Email Address:	Primary Contact Person:		

PART 3 – INSTALLER DATA

This section must be filled out if an Installer is being retained for this project and will need to receive communication on behalf of the Interconnection Customer relating to this proposed project. The primary contact listed below may also designate additional personnel from the same company to participate in communications regarding this project.

Engineering Firm Name:	Best Phone Number:		
Mailing Address:	City:	State:	ZIP Code:

Part 3 continues on the next page.

PART 3 – INSTALLER DATA *(continued)*

Email Address:	Primary Contact Person:

PART 4 – DISTRIBUTED ENERGY RESOURCE INFORMATION

Account or Service Location Number (if known) for the generator:	If Account or Service Location Number is not known, provide a detailed description of the location. This application cannot be acted upon without adequate information to determine the exact service location.
Detailed Description of Generator Location:	

_____

_____

Is this a net metering installation? Check One: □ Yes □ No

Please note that net metering only applies to residential generators up to 10 kW or commercial generators up to 25 kW. Larger generators are not eligible for net metering without special Y-WEA Board of Directors approval.

Inverter Manufacturer:	Inverter Model Number:

Inverter Nameplate Rating: _____kW	AC Volts: _____	*Check One:* □ Single Phase □ Three Phase

Total System Design Capacity: _____kW _____kVA *Please note that Total System Design Capacity may be limited by the rating of the inverter or by the rating of some other component, such as the total ratings of all solar panels on a PV installation*	Limited by *(check one)*: □ Inverter □ Other Equipment

Prime Mover *(check one)*: □ Photovoltaic □ Reciprocating Engine □ Fuel Cell
□ Turbine □ Other: _____

Energy Source *(check one)*: □ Solar □ Wind □ Hydro □ Diesel □ Natural Gas
□ Fuel Oil □ Other: _____

Is the Equipment Certified to Meet UL 1741 *(check one)?* □ No
□ Yes – If yes, manufacturer's cut-sheet(s) showing UL 1741 Certification must be attached for the inverter and all upline installed control equipment

The 25 kW AC inverter process is available only for inverter-based interconnection resources no larger than 25 kW AC that meet the codes, standards, and certification requirements specified in these interconnection rules.

List components of the small generating facility equipment package that are currently certified and the Equipment Certifying Entity. Please note that UL is **very rarely** the actual certifying entity. The certifying entity will almost always be ETL, Intertek, CSA, or another entity. Equipment that has not previously been seen and verified by Y-WEA will be checked for UL 1741 certification with the entity noted below. If that entity has not actually listed the equipment as UL 1741 certified, this application **will fail** the fast-track screens for certification. Make sure the actual certifying entity is listed below in order to avoid delays or rejections.

Equipment Type:	Certifying Entity:

Part 4 continues on the next page.

PART 4 – DISTRIBUTED ENERGY RESOURCE INFORMATION *(continued)*

IF THIS IS NOT A NET METERING OR SELF GENERATION INSTALLATION, COMPLETE THE FOLLOWING:

Anticipated Energy Purchaser: _____

Proposed Energy Delivery Location: _____

PART 5 – LIMITED-EXPORT / NON-EXPORT / LIMITED-IMPORT DATA

This section must be filled out only for Limited-Export, Non-Export, or Limited-Import systems. If the proposed DER does not contain any equipment that controls power export back onto Y-WEA's electric system, then do not fill out this section.

If multiple export control systems are used, provide the information below for each control system and use additional sheets if needed.

Is export controlled to less than the Total Aggregate Nameplate Rating? *Check One:* □ Yes □ No	Method of Export Limitation *(check one)*: □ Power Control System □ Reverse Power Protection □ Minimum Power Protection □ Other: _____
Export controls are applied to how many generators *(check one)*: □ Multiple: _____ □ One	
If Power Control System is used, open loop response time(s): _____	Power Control System export capacity: _____ kW AC _____ kVA
Energy Storage System Power Control System operating mode *(check one)*: □ Unrestricted □ Export Only □ Import Only □ No Exchange	
Describe which Generators the export control system controls: _____ _____	

PART 6 – INTERCONNECTION CUSTOMER SIGNATURE AND CERTIFICATION

This section **must** be completed and signed by the Interconnection Customer, which is **Y-WEA's Member** for all Net-Metering or Self-Generation interconnection applications.

I hereby certify that, to the best of my knowledge, the information provided in this Application is true. I agree to abide by the Terms and Conditions for Interconnecting an Inverter-Based Interconnection resource No Larger than 25 kW and return the Certificate of Completion when the interconnection resource has been installed.

By signing and submitting this Interconnection Application and Agreement, the Interconnection Customer (IC) allows Y-W Electric Association, Inc. (Y-WEA) to give the Engineering Firm listed in Part 2 and the Installer listed in Part 3 information from the IC's meter collected by Y-WEA for the IC's electric service and information regarding the IC's participation in renewable energy, demand-side management, or load management programs. This information will be used to provide the IC with DER products or services that the IC requested and analyze the IC's energy usage. The relevant timeframe associated with the requested data will begin upon the IC's execution of this application and will end when the final Certificate of Completion is signed by Y-WEA and returned to the IC or when this application expires or is withdrawn in accordance with the Rules and Regulations of Y-WEA. The IC may terminate this consent at any time by sending a written request with the IC's name and service address to Y-WEA. By signing this form, the IC acknowledges and agrees that he or she is the customer of record for this account, or an authorized representative therefor, and that he or she authorizes Y-WEA to disclose this data as specified.

*** Customer data can provide insight into activities within the premises receiving utility service. Y-WEA may not disclose the IC's customer data except (1) if the IC authorizes the disclosure, (2) to contracted agents that perform services on behalf of Y-WEA, or (3) as otherwise permitted or required by laws or regulations ***

*** The IC is not required to authorize the disclosure of this customer data. Not authorizing disclosure will not affect utility services. ***

*** The IC may access his or her standard customer data from Y-WEA without any additional charge. ***

Part 6 continues on the next page.

PART 6 – IC SIGNATURE AND CERTIFICATION *(continued)*

*** Y-WEA will have no control over the data disclosed pursuant to this consent, and will not be responsible for monitoring or taking any steps to ensure that the data recipient maintains the confidentiality of the data or uses the data as authorized. ***

*** In addition to the customer data described above, the data recipient may also receive the IC's name, account number service location number; meter number; service address; premise description; meter read date(s); number of days in the billing period; utility invoice date; base rate bill amount; other electric service charges including base rate and non-base rate adjustments; taxes; and electric service invoice total amount. Y-WEA will not provide your Social Security Number or any financial account number to the data recipient. ***

Y-WEA Member's/Interconnection Customer's Signature:	**Date:**

SUBMISSION INSTRUCTIONS

In order to be considered a valid, bona fide application an original, wet-ink signed application document must be delivered to Y-WEA or a digitally-signed PDF document must be emailed, as instructed below. A facsimile/image of a wet-ink signed document, a printout of a digitally-signed document, and a PDF document not meeting the requirements below are all unacceptable document submission methods and will be rejected.

If delivering an original document:

Please complete this form and mail or hand deliver, together with the processing fee, to:

Y-W Electric Association, Inc.
ATTN: Interconnection Applications
26862 US Hwy 34
PO Box Y
Akron, CO 80720

Note that the outer envelope in which this documentation is delivered **must be clearly identified** as an Interconnection Application or it will not be handled as such and the application will be very greatly delayed in receiving, processing, and evaluation.

If delivering electronically:

A verifiable, digitally-signed PDF file of this application document must be emailed to **interconnections@ywelectric.coop**

The PDF file **must** be signed with an AATL-compliant digital signature. This signature must either be in the signing party's name or, if a document-processing company such as DocuSign is being used, the signature must be in the processing company's name. If a document processing company is being used, the document must include a folio or reference number, and an audit or security log must be included or attached also containing the processing company's digital signature, the folio or reference number, and documentation showing that the Interconnection Customer's identity was verified by means other than the Interconnection Customer's email address (examples include submission of identifying documents or a secure identity verification/authentication by a vendor such as LexisNexis).

Payment of the processing fee can be accomplished by either mailing a check for the required amount, following the same instructions above as for submitting an original document application. Electronic billing can also be arranged but must be requested. Electronic bills may be sent either to the Interconnection Customer or to the Engineer/Installer and will be credited to a separate miscellaneous receivables account rather than to the Interconnection Customer's regular electric service account.

PART 7 – APPROVAL

Interconnection of the small generating facility is approved contingent upon the terms and conditions for interconnecting an inverter-based small generating facility no larger than 25 kW and return of the certificate of completion.

Y-WEA Authorized Signature:	**Date:**

Signer's Title:	Application ID:

Y-WEA does not waive any inspection/witness test.

PART 8 – TERMS AND CONDITIONS FOR INTERCONNECTING AN INVERTER-BASED SMALL GENERATING FACILITY NO LARGER THAN 25 KW

(I) Construction of the facility. The interconnection customer may proceed to construct the interconnection resource when the utility approves the interconnection request (the application) and returns it to the IC.

(II) Interconnection and operation. The IC may operate the interconnection resource and interconnect with the utility's electric system once all of the following have occurred:

(A) upon completing construction, the interconnection customer will cause the interconnection resource to be inspected or otherwise certified by the appropriate local electrical wiring inspector with jurisdiction;

(B) the customer returns the certificate of completion to the utility; and

(C) the utility has completed its inspection of the interconnection resource. All inspections must be conducted by the utility, at its own expense, within ten business days after receipt of the certificate of completion and shall take place at a time agreeable to the parties. The utility shall provide a written statement that the interconnection resource has passed inspection or shall notify the customer of what steps it must take to pass inspection as soon as practicable after the inspection takes place.

(D) The utility has the right to disconnect the interconnection resource in the event of improper installation or failure to return the certificate of completion.

(III) Safe operations and maintenance. The interconnection customer shall be fully responsible to operate, maintain, and repair the interconnection resource as required to ensure that it complies at all times with the interconnection standards to which it has been certified.

(IV) Access. The utility shall have access to the disconnect switch and metering equipment of the interconnection resource at all times. The utility shall provide reasonable notice to the customer when possible prior to using its right of access.

(V) Disconnection. The utility may temporarily disconnect the interconnection resource as allowed in the interconnection agreement and upon the following conditions:

(A) for scheduled outages per notice requirements in the utility's tariff or Commission rules;

(B) for unscheduled outages or emergency conditions pursuant to the utility's tariff or Commission rules; or

(C) if the interconnection resource does not operate in the manner consistent with these terms and conditions.

(D) The utility shall inform the interconnection customer in advance of any scheduled disconnection, or as is reasonable after an unscheduled disconnection.

(VI) Indemnification. The parties shall at all times indemnify, defend, and save the other party harmless from, any and all damages, losses, claims, including claims and actions relating to injury to or death of any person or damage to property, demand, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties, arising out of or resulting from the other party's action or inactions of its obligations under this agreement on behalf of the indemnifying party, except in cases of gross negligence or intentional wrongdoing by the indemnified party.

(VII) The interconnection customer is not required to provide general liability insurance coverage as part of this agreement, or through any other utility requirement.

(VIII) Limitation of liability. Each party's liability to the other party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of the interconnection agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either party be liable to the other party for any indirect, incidental, special, consequential, or punitive damages of any kind whatsoever, except as allowed under subparagraph (c)(VI) of this rule.

(IX) Termination. The interconnection agreement to operate in parallel may be terminated under the following conditions.

(A) By the customer by providing written notice to the utility.

Part 8 continues on the next page.

PART 8 – TERMS AND CONDITIONS FOR INTERCONNECTING AN INVERTER-BASED SMALL GENERATING FACILITY NO LARGER THAN 25 KW *(continued)*

(B) By the utility if the interconnection resource fails to operate for any consecutive 12-month period or the customer fails to remedy a violation of these terms and conditions.

(C) Permanent disconnection. In the event the interconnection agreement is terminated, the utility shall have the right to disconnect its facilities or direct the customer to disconnect its interconnection resource.

(D) Survival rights. The interconnection agreement shall continue in effect after termination to the extent necessary to allow or require either party to fulfill rights or obligations that arose under the agreement.

(X) Assignment/Transfer of ownership of the facility. The interconnection agreement shall survive the transfer of ownership of the small generating facility to a new owner when the new owner agrees in writing to comply with the terms of the agreement and so notifies the utility.

PART 9 – CODES AND STANDARDS

DERs are required to comply with the following codes and standards:

ANSI C84.1-2016 Electric Power Systems and Equipment – Voltage Ratings (60 Hertz)

ANSI/NEMA MG 1--2016, Motors and Generators

IEEE Std 519-2014, IEEE Recommended Practices and Requirements for Harmonic Control in Electrical Power Systems

IEEE Std 1453-2015 IEEE Recommended Practice for the Analysis of Fluctuating Installation on Power Systems

IEEE Std 1547-2018, IEEE Standard for Interconnection and Interoperability of Distributed Energy Resources with Associated Electric Power Systems Interfaces

NFPA 70 (2017), National Electrical Code

UL 1741 Inverters, Converters, and Controllers for Use in Independent Power Systems

UL 1741 SA, until January 1, 2022, or until such time new DERs applying for interconnection will comply with IEEE 1547-2018, IEEE Standards for Inverters, Converters, Controllers and Interconnection System Equipment for Use with Distributed Energy Resources

The following standards are recommended for use in DER system design and installation:

IEEE Std C62.41.2-2002/Cor 1-2012, IEEE Recommended Practice on Characterization of Surges in Low Voltage (1000V and Less) AC Power Circuits Corrigendum 1: Deletion of Table A.2 and Associated Text

IEEE Std C62.45-2002, IEEE Recommended Practice on Surge Testing for Equipment Connected to Low-Voltage (1000V and Less) AC Power Circuits

IEEE Std 100-2000, The Authoritative Dictionary of IEEE Standards Terms, Seventh Edition

IEEE Std 1547.1-2005, IEEE Standard Conformance Test Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems