



## **Electric Services**

**Interconnection Agreement  
For  
A Net-Metered Renewable Energy Generation Facility  
500 kVA and Smaller**



## Electric Services

### Interconnection Agreement For A Net-Metered Renewable Energy Generation Facility 10 kW and Smaller

Between  
AMES  
And

\_\_\_\_\_  
(Customer)

This Interconnection Agreement (Agreement) for a **Net-Metered Renewable Energy Generation Facility, 500kVA and Smaller (here-after referred to as “Renewable Energy System”)** is entered into on \_\_\_\_\_, 20\_\_ (Effective Date) by and between

\_\_\_\_\_  
(Customer), \_\_\_\_\_(address),  
and The City of Ames, Electric Services, a Municipal Utility operating in the State of Iowa (here-after referred to as “AMES”).

#### RECITALS

A. Renewable Energy System Interconnection Service is available to AMES Customers that are supplied electric service by AMES under all rate schedules and that own, operate and maintain an eligible Renewable Energy System in parallel with (i.e. interconnected-with and able to generate into) the AMES electric system.

B. The Customer owns an eligible Renewable Energy System, which utilizes “Renewable Energy Technologies” as defined within the City of Ames Tariff for “Availability of Net Metering” within its Municipal Code Appendix H, Tariff Number 5, section 2.7. Customer will install and maintain its System in compliance with all requirements of this Agreement.

C. The Customer desires to connect the eligible Renewable Energy System to AMES’ electric system using a Net Metered service (see Net Metering tariff reference in Paragraph B, above).

D. AMES has mechanisms in place through its Electric Tariff and Electric Service Rules and supplemental interconnection requirements to define eligibility of the service described in this Agreement and to accommodate the Customer’s request.

**NOW, THEREFORE**, in consideration of the mutual promises and covenants contained within this Agreement, the parties agree as follows:

## **AGREEMENT**

### **1. SYSTEM DEFINED**

The Customer's System is an eligible Renewable Energy System as determined by its use of eligible Renewable Energy Technology and other eligibility requirements further defined in the City of Ames Municipal Code, Tariff H, Section 2.7 "Availability of Net Metering." The Customer's eligible Renewable Energy System self-contained electric generation system comprising: a UL-listed, IEEE-compliant non-islanding inverter-based generation system complete with protection elements, direct-current disconnect apparatus, inverter for the conversion of direct current to alternating current, alternating-current lockable disconnect for utility use as a lockout device, and all other related electrical equipment comprising Customer's generation system up to the Customer's service connection point to AMES electric system. All such equipment described as the "System" within this Agreement. The Customer's System will be Net-Metered through a single meter; therefore an additional meter is not required for all AMES service rate schedules under this Agreement.

### **2. TERM AND TERMINATION**

2.1 The term of this Agreement begins on the Effective Date (regardless of the date that the Customer is authorized to interconnect the System pursuant to the terms of this agreement, inclusive of all exhibits and references) and continues for five (5) consecutive 12-month periods, and then will renew for additional 12-month periods continuing until either party chooses to terminate the agreement.

2.2 The Customer may terminate this Agreement at any time by providing 30 days written notice of termination to AMES. AMES may terminate this Agreement at any time by providing 30 days written notice of termination to the Customer.

2.3 AMES may terminate this Agreement at any time for any violation of this Agreement by providing 5 days written notice to the Customer. As provided in Section 3 below, this Agreement is at all times subject to the terms of, changes to, and revisions to, AMES rate structure and Electric Service Rules and other applicable regulatory authorizations.

2.4 This agreement shall automatically terminate on the 10<sup>th</sup> day following the sale or transfer of the Customer's premises. In the event of such sale or transfer the Customer shall notify the new buyer of this Interconnection Agreement and the new buyer shall promptly sign the AMES forms to reaffirm this Agreement. Failure of the buyer to reaffirm this Interconnection Agreement within ten days of the sale or transfer will allow AMES to perform generator disconnect and lock out procedures as provided herein. The right to reaffirm this Interconnection Agreement may not be withheld by AMES unless the system fails to meet the requirements in force at the time of the sale/transfer.

2.5 At the time of termination of this Agreement for any reason, AMES will perform lock out procedures to disconnect the Customer's System from the AMES' electric system.

### 3. TARIFF AND REGULATORY AUTHORITIES

3.1 Renewable Energy System Interconnection Service is available to AMES customers that are supplied electric service by AMES under all rate schedules and that own, operate and maintain an eligible Renewable Energy System interconnected with the AMES electric system.

3.2 This Agreement is subject to: all present and future applicable laws, rules, regulations, certificates, decisions, orders and directives of the Ames City Council and all federal, state and local authorities having jurisdiction over the subject matter of this Agreement; and this Agreement will be deemed to include all such changes referred to in the initial sentence of this subsection, or any other changes that become effective by operation of law, or City Council resolution, without prejudice to the Customer's right to protest those changes. As stated in AMES MUNICIPAL ELECTRIC UTILITY ELECTRIC TARIFF NO. 5, Sec. 2.7 Availability of Net Metering:

**“All of the requirements, benefits, terms and conditions of this tariff are subject to change. Customers receiving net-metered service under this tariff assume all risks associated with future changes to this tariff.”**

For prospective customers making application for interconnection of a net-metered Renewable Energy Generation Facility and taking service under the Ames Municipal Electric Utility Electric Tariff No. 5, section 2.7 (aka “Net-Metering Tariff”) found in Appendix H of the Ames Municipal Code : please be advised that all of the requirements, benefits, terms and conditions of the Net Metering tariff are subject to change. **Where systems are sized to produce excess generation at any time, calculated payback periods may be especially effected. Forward-looking estimates of system payback periods should not assume kWh-banking, kWh-credits or payment for excess generation under the Net Metering Tariff. By signing this agreement, the owner/applicant acknowledges that they have read and understand this notification and accept all future risks associated with changes to the Net Metering Tariff.**

### 4. DESIGN, PERMITTING and INSTALLATION

4.1 The Customer and the System must comply with all applicable requirements of the following; the most current versions of cited references apply:

- All applicable building and zoning ordinances and codes
- National Electric Code (NEC) requirements, including, but not limited to NEC Articles 690 and 705
- All applicable Underwriters Laboratories (UL) equipment certification requirements including, but not limited to UL 1741 , UL 1741 supplement A and UL 1741 (2016) certification requirements, including certifications of compliance

with required advanced/smart inverter requirements mandated in Hawaii and California (for California Phase1 autonomous inverter behaviors).

- All applicable Institute of Electrical and Electronics Engineers (IEEE) requirements including, but not limited to the IEEE 1547-series (includes 1547.a, and 1547.1) .
- All applicable National Fire Protection Agency (NFPA) requirements, including, but not limited to NFPA 70.

At its sole expense, the Customer must:

- 1) Obtain all necessary zoning permits for the installation of the System.
- 2) Obtain all necessary electrical & building permit(s) for the installation of the System
- 3) Obtain and maintain any governmental authorizations or permits that may be required for the installation or operation of the System.
- 4) Have the design of its System (including all related equipment specifications and installation plans) **reviewed and approved by a Professional Electrical Engineer** that is currently licensed in the State of Iowa.

The Customer must reimburse AMES for any and all losses, damages, claims, penalties, or liability AMES incurs as a result of the Customer's failure to obtain or to maintain any governmental authorizations and permits that may be required for construction and operation of the Customer's System.

4.2 The Customer or its designated representative (engineer, consultant, or contractor, for example) must complete Exhibits A and B and construct the System as specified in the completed/attached Exhibit A.

4.3 **Mandatory Lockable Disconnect** : A manual, lockable, load-break disconnect switch that provides a clear indication of the switch position must be installed at or near the Customer's main point of service from AMES' electric system to provide a point of electrical separation between the Customer's generation System and City of Ames electric system. AMES will coordinate and approve the location of the disconnect switch. The disconnect switch must be readily visible, mounted separately from the metering equipment, readily accessible to AMES' personnel at all times, and capable of being locked in the open position with an AMES lock. To avoid an extended interruption of power to the Customer's main service during a generator disconnect/lockout operation, this disconnect must be configured and installed such that it will effectively isolate the generator without disconnecting the Customer's main service. AMES may open the disconnect switch thereby isolating the Customer's generator system from the AMES electric system for any reason that AMES deems necessary, including, but not limited to, maintenance or emergency work, interference or adverse affects on service to other customers of AMES, during situations deemed by the City as a hazardous or unsafe condition created by the Customer's System, the Customer's failure to pay utility bills when due, or failure to comply with applicable standards, codes or regulations that apply to the Customer's System, installation or operation.

**Voltage Indicator:** For all 3 phase systems (208V or 480V) and all 480V systems, the disconnect must include an externally viewable Voltage Indicator (Graceport model # RW-3, or approved equivalent), to indicated the presence of voltage on each phase

4.4 All rate schedules within AMES system do not require the second metering point for this level of renewable generation receiving service under the net metering tariff.

4.5. For interconnected, parallel operation with AMES' electric system, the proposed System must comply with current-versions of all applicable Institute of Electrical and Electronics Engineers (IEEE) Standards, particularly those in the IEEE 1547-series. The purpose of these IEEE Standards is to minimize custom engineering of many aspects of the interconnection. These standards allow installation in a manner that will allow the System to perform as expected and to be installed at a reasonable cost while not compromising safety or operational issues. All power quality parameters (that is, voltage, flicker, frequency, distortion, etc) are specified at the point of common coupling (PCC) unless otherwise stated. In addition to other applicable requirements, including advanced/smart inverter functions currently mandated in Hawaii and California (for California Phase I autonomous inverter behavior), the following requirements must be met:

4.5.1 Flicker – Any voltage flicker resulting from the connection of the inverter to AMES' electric system at the PCC cannot exceed the limits defined by the maximum borderline of irritation curve identified in IEEE Std. 519.

4.5.2 Frequency – the System must have a fixed frequency range within IEEE- specific limits for a 60 Hz system.

4.5.3 Waveform (harmonics) -- the System must have low current-distortion levels to ensure that no adverse effects are caused to other equipment or customers connected to AMES' electric system. The System's electrical output at the PCC must comply with IEEE Std. 519. Total harmonic distortion and each individual harmonic are limited to the percentages listed in IEEE Std. 519.

4.5.4 Power Factor – The System must operate at a power factor  $> 0.90$  (leading or lagging) when output is greater than 10%.

4.5.5 Islanding Protection – The System must cease to energize the utility line when the inverter is subjected to islanding conditions. The Customer's System must immediately, completely and automatically disconnect from AMES' electric system in the event of a fault on the Customer's System, a fault on AMES' electric system or loss of source on AMES' electric system. AMES, at its own discretion, may conduct periodic testing of anti-islanding (aka non-islanding) or other functions as it deems necessary. The System inverter shall not have automatic test features which could inadvertently energize, or otherwise create an unsafe back-feed situation, even momentarily, during periods when AMES' electric system is de-energized.

4.6 Following a loss of source power from AMES electric system, the Customer's System must have a pre-programmed time-delayed reconnection following return of the AMES source to allow for AMES feeder protection system to conclude its reclose operations. The specific time-delay requirement will be determined at the time of application submittal and will be specified as 60 seconds, or longer, depending on the location in Ames Electrical System. Submittal documents for Exhibit A shall include the settings for the required specified time-delay.

4.7 The Customer's System protection must be capable of interrupting the maximum available fault current. The interrupting capability of the main System Generator Breaker shall be clearly marked and indicate the source-side connection to AMES' electric system. AMES will provide and attach an additional label to the manually-lockable load-break disconnect switch, which is described in Subsection 4.3 above.

4.8 The Customer, at its own expense, must pay for any additional equipment required to connect the System to AMES' electric system.

4.9 **Waiving Requirements:** All requirements of this Agreement must be met although AMES may, in its sole discretion, waive all or some of the requirements of this Agreement. Waivers must be issued in writing and made part of this Agreement.

## **5. WRITTEN AUTHORIZATION REQUIRED TO CONNECT SYSTEM**

5.1 **The Customer may not connect the System to the AMES' electric system until:** 1) this Agreement has been executed by the parties 2) the System has been tested, and 3) written authorization to connect the System, in a form substantially similar to the attached Exhibit C, has been given to the Customer by AMES. All required building and electrical inspections required by the City of Ames Inspections Division are separate inspections from the AMES inspection of the Customer's System and must be completed before AMES will issue an authorization to connect the System. AMES may have representatives present at the initial (commissioning) testing of the Customer's System (reference section 10.2, below for commissioning testing requirements) and may perform whatever inspection and testing of the Customer's System that AMES deems necessary. Customer shall provide to AMES a certified test report demonstrating that the system has been tested in compliance with applicable IEEE and UL requirements.

5.2 After written authorization to connect the System to AMES' electric system has been given, the Customer shall make no changes, additions or modifications to the System, its settings, or its mode of operation without the prior written approval of AMES.

## **6. LOCATION OF SYSTEM**

The System will be installed at the Customer's premises located at in the physical location specified or depicted in the completed/attached Exhibit A. The Customer shall not relocate the System to another premises or physical location without the prior written approval of AMES. In the event that such approval is given, any relocation and installation of the System will be at the Customer's sole expense.

## 7. NET METERING

The term “Net Metering” as used within this Agreement refers to the use of a single meter connected to the System at the AMES point of service delivery (no second meter required). For existing customers, the Net Metering process is accomplished at the customer’s original point of metering through a single bi-directional meter which measures net quantities only and does not provide a separate measurement of generator output.

## 8. RENEWABLE ENERGY CREDITS

This Section is left intentionally blank

## 9. ACCESS TO PREMISES

The Customer will allow access to its premises and to the System by AMES personnel in accordance with the AMES’ Service Rules: (i) to inspect the Customer’s System, (ii) to read and to replace meters; (iii) to open the lockable disconnect switch, and (iv) to disconnect the interconnection facilities at AMES meter or transformer. The Customer shall limit access to and operation of its System to qualified persons and assumes the responsibility of maintaining control of the operation of the Generator.

## 10. COMMISSIONING, MAINTENANCE AND INSPECTIONS

10.1 **General:** At its sole expense, the Customer, or Customer’s authorized representative shall perform commissioning, and maintenance as outlined in this section for all Generation System equipment comprising the Customer’s System. Customer shall maintain its System, in a safe and prudent manner and in conformance with all applicable laws, codes and regulations, including, but not limited to, the requirements of Section 4 above. All testing shall be documented and certified by a testing agency trained and certified to perform the required testing; AMES shall be granted the right to audit the documentation. AMES reserves the right to require and witness testing of the Customer’s System. The Customer’s System is subject to inspection by an AMES representative at a mutually agreeable time, as AMES deems necessary.

AMES inspection and/or witnessing the testing of the Customer’s equipment shall not be construed as AMES warranting or implying that the Customer’s equipment is safe or reliable. AMES shall not be liable to the Customer or others as a result of inspection and witnessing of tests of the Customer’s System, or equipment.

10.2 **Commissioning:** The manufacturer’s recommended and required commissioning, installation and functional tests shall be completed, with successful results, in accordance with the manufacturer’s published recommendations. If not already required as part of manufacturer’s recommended tests, commissioning tests prescribed in IEEE 1547 shall also be completed with successful results. After obtaining the final Customer System inspection by AMES, the Customer shall invite AMES to the commissioning test and perform the test at a mutually agreed date, but not later than 20 business days after the invitation. The extent of the initial testing will be determined at an earlier meeting between Customer and AMES.



**10.3 Maintenance and Testing:** Maintenance shall be performed in accordance with the manufacturer's published maintenance procedures. Periodic testing shall be completed with successful results in accordance with the manufacturer's published recommendations for periodic testing within the recommended testing intervals. If the manufacturer does not publish recommendations for periodic testing, suitable testing shall be performed that assures proper protection for the AMES electric system, at an interval not to exceed two years. All test results shall be documented and available to AMES for review upon request.

**10.4 Failure of Test:** If Customer's System fails any test, it shall be disabled and the Isolation Device must be opened until the equipment is repaired and successfully passes the required testing.

## **11. DISPUTE RESOLUTION**

Should a dispute arise between the parties with regard to the Service provided under this Agreement, any such dispute may be reviewed and determined in accordance with the Dispute Resolution Procedure as provided in AMES Tariff and Electric Service Rules, Utilities Rules and Regulations, or other related Municipal Codes.

## **12. SAFETY AND INSURANCE**

The Customer is solely responsible for ensuring the safe installation and operation of its Generation System. The Customer agrees to install, to operate and to maintain the System in a safe and prudent manner and in conformance with all applicable laws, codes and regulations including, but not limited to, those contained within Section 4 above.

### **Insurance:**

AMES strongly recommends that the Customer obtain and retain, for as long as its System is interconnected with AMES' electric system, liability insurance which protects the Customer from claims for bodily injury and/or property damage. The Customer is advised to consult customer's insurance provider for recommended limits for comprehensive general liability insurance.

## **13. SEVERABILITY**

If any provision of this Agreement is found to be illegal or unenforceable, then the remaining provisions of this Agreement will remain in full force and effect, and such term or provision will be deemed stricken for as long as it remains illegal or unenforceable.

## **14. SURVIVAL**

The provisions of this Agreement with respect to indemnification and liability will survive the termination of this Agreement.

## 15. NOTICES AND OTHER COMMUNICATIONS

Except as otherwise expressly provided in this Agreement or as may be specified by the parties in writing, any notice or other communication required under this Agreement must be in writing and must be sent by registered or certified United-States mail, or by messenger, or by facsimile, or by other electronic means. Any such notice or other communication must be addressed as follows and, if so addressed, will be effective upon actual receipt.

If to Customer: Name:

Title:

Address:

Phone:

Fax:

Email:

If to AMES: Name: Lyndon Cook

Title: Electrical Engineering Manager

Address: 502 Carroll Ave.; PO Box 811

Phone: (515) 292-8044

Fax: (515) 239-5308

Email: lcook@city.ames.ia.us

## 16. ENTIRE AGREEMENT

This Agreement, together with its attachments, constitutes the entire agreement between the parties and supersedes all previous written or oral communications, understandings, and agreements between the parties unless specifically stated otherwise within this Agreement. This Agreement may be amended only by a written agreement signed by both parties. Email and all other electronic (including voice) communications from AMES in connection with this Agreement are for informational purposes only. No such communication is intended by AMES to constitute either an electronic record or an electronic signature or to constitute any agreement by AMES to conduct a transaction by electronic means. Any such intention or agreement is expressly disclaimed.

**17. ACKNOWLEDGEMENTS REGARDING AGREEMENT**

**By signing below, the Customer acknowledges that it understands the terms of this Agreement and that the Customer may not connect the System to AMES' electric system until the Customer has received written authorization to connect from AMES.** Within 20 business days after notice from the Customer that the System is ready for interconnection to the AMES' electric system, AMES will inspect the System. Subsequent to AMES inspection (inclusive of test-witnessing and test documentation review), AMES will provide a written authorization to connect the System or a statement that the System may not be interconnected because of non-compliance with this Agreement. (See Exhibit C, Authorization form).

THE DULY AUTHORIZED REPRESENTATIVES of the parties have signed three originals of this Agreement.

**CUSTOMER**

Authorized Signature: \_\_\_\_\_ Date \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Utilities Account #: \_\_\_\_\_

**AMES**

Authorized Signature: \_\_\_\_\_ Date \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_

## Exhibit A

To the Interconnection Agreement for a Net-Metered Renewable Energy Generation Facility, 500kVA and  
Smaller  
, between

AMES and \_\_\_\_\_, dated \_\_\_\_\_.

1. Complete the Exhibit B “Applicant Information for Interconnection of a Net-Metered Renewable Energy Generation Facility, 500kVA and Smaller.”
2. Insert, or attach a description of the proposed Customer generation System.
3. Attach a **one-line and/or 3-line drawing** of the Customer’s generation System showing the generator (solar array), inverter, optimizers (if used), any discreet protection elements not included in the inverter, metering, lockable disconnect, electrical connections and devices that comprise the System up to the AMES service delivery point. Drawing shall include individual and aggregate output ratings of generator (panels and array) and inverter(s). Each device or piece of equipment shall include (shown on the drawing) the manufacturer, model number, voltage rating, power output rating (AC, or DC where applicable), number of phases, number of conductors, conductor sizes and ratings for individual protective devices and switches/disconnects (phases, voltage, Amps). Total number of inverters and panels must be clearly shown and all system components must be included (this includes optimizers, where used). Drawing information shall be consistent with information provided in Exhibit B and supplemental data/specifications.
4. Attach a **site plan drawing** showing the existing property plan view, orientation, street/address, structures, drive/access, existing service/meter location and the location of the generator (solar array), inverter and lockable disconnect, along with other pertinent site-specific details.
5. **Additional Information** to be submitted with the Interconnection Agreement includes: Estimated annual kWh production, Customer's estimated annual usage, a copy of one of the customer's electric bills will suffice, a copy of the NREL PVWATTS spreadsheet (or similar) showing design parameters and annual output, Inverter Manufacturer’s UL/IEEE certifications, Inverter manufacturer’s certification and/or compliance statements regarding Advanced Inverter requirements (for compliance with California and Hawaii mandated compliance requirements noted above in requirements of section 4.1).
6. **P.E. Approval Required:** All drawings and specifications that comprise the design for the Customer’s proposed generation System must be approved by a Professional Electrical Engineer currently licensed in the State of Iowa (aka “The Engineer”). A single cover sheet with The Engineer’s certification will suffice if it is part of a bound engineering document that references & includes all Customer Generator System information required by AMES interconnection agreement and related exhibits.
7. **PERMITS required by other departments:** There is an SESZP permit required by the Planning and Housing Department which may be applied for concurrently. The Inspections Department requires Building and Electrical Permits, which are typically applied for after the Interconnection agreement and SESZP permit are approved.

**Exhibit B**

**Applicant Information for Interconnection of a Net-Metered  
Renewable Energy Generation Facility, 500kVA and Smaller**

This Application is considered complete when it provides all required information. Additional information to evaluate the Application may be required.

**Interconnection Customer (Site/Facility Owner) Contact Information**

**Owner:** Entity and/or Customer Name: \_\_\_\_\_

Is the above person authorized to sign a binding legal agreement with the City of Ames?

Yes \_\_\_\_\_ No \_\_\_\_\_ (if "No", additional information/clarification will be required)

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

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

Telephone (Daytime): \_\_\_\_\_ (Evening): \_\_\_\_\_

Facsimile Number: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

Generator Site Facility Address, if different from above: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

Ames Electric Customer Account # @ System site: \_\_\_\_\_

If the generator site, or generator system is a shared ownership, include % ownership by others:

\_\_\_\_\_  
\_\_\_\_\_

**Applicant Contact information (if not the same as the Customer/Owner, above)**

Name \_\_\_\_\_

Title and/or Relationship to Customer/Owner:  
\_\_\_\_\_

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

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

Telephone (Daytime): \_\_\_\_\_ (Evening): \_\_\_\_\_

Facsimile Number: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

License type/number/expiration, if applicable: \_\_\_\_\_

**Equipment or Prime Contractor (or design consultant/representative)**

Name \_\_\_\_\_

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

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

Telephone (Daytime): \_\_\_\_\_ (Evening): \_\_\_\_\_

Facsimile Number: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

Active License type/number/expiration-date, if applicable

\_\_\_\_\_

Name, License # & License Expiration Date of the **Professional Electrical Engineer**, licensed in the State of Iowa, that has reviewed and approved this proposed system design:

\_\_\_\_\_

Is the Interconnection Customer requesting Net Metering? Yes \_\_\_ No \_\_\_

**Generation Facility Information**

Facility Address (if different from above): \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

**Inverter Information:** (Attach manufacturer's technical specifications and UL certification)

Inverter Manufacturer & Model #(s): \_\_\_\_\_

Inverter Output Ratings: \_\_\_\_\_ (kW) \_\_\_\_\_ (kVA) \_\_\_\_\_ (AC Volts)

Efficiency: \_\_\_\_\_ %, Power Factor: \_\_\_\_\_ %, THD: \_\_\_\_\_ %, Max Fault Current(A): \_\_\_\_\_

Total number of Inverters in system: \_\_\_\_\_

Combined peak AC output kW rating of inverters: \_\_\_\_\_

Are all inverters UL 1741 listed? Yes \_\_\_ No \_\_\_

Is the inverter certified as a non-islanding type per IEEE-1547 requirements? Yes \_\_\_ No \_\_\_

Does the system design meet all applicable IEEE 1547 –series requirements? Yes \_\_\_ No \_\_\_

Do the inverters comply with Advanced Inverter requirements of UL 1741 supplement A in compliance with California Smart Inverter Phase 1 (autonomous smart inverter) and Hawaii mandatory advanced inverter requirements? Yes \_\_\_ No \_\_\_

If the answer to the above question is "NO", please describe exceptions or limitation (note attachments, as needed):

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**Generator Information:**

Energy Source: (Solar, Wind, Hydro) \_\_\_\_\_ Other \_\_\_\_\_

Generator Type: Photovoltaic \_\_\_\_\_ Synchronous \_\_\_\_\_ Induction \_\_\_\_\_ Other \_\_\_\_\_

Single Phase \_\_\_\_\_ Three Phase \_\_\_\_\_ Rated Frequency \_\_\_\_\_ (HZ)

Solar Panel Manufacturer, Model #: \_\_\_\_\_

Individual Panel rating (Pmax, Watts DC output) : \_\_\_\_\_

Total number of Panels in Array: \_\_\_\_\_

Aggregate Array output (Pmax, Watts DC Array): \_\_\_\_\_  
(For Photovoltaic systems, the above aggregate rating is the aggregate peak output rating for the maximum number of panels to be installed at ultimate build-out, if this is a phased installation).

Generator/(non-solar) Nameplate Rating: \_\_\_\_\_(kW) \_\_\_\_\_(kVA) \_\_\_\_\_

(AC Volts) \_\_\_\_\_ (Amps) \_\_\_\_\_

System Design Capacity: \_\_\_\_\_ (kW) \_\_\_\_\_ (kVA) Limiting Factor \*: \_\_\_\_\_  
(\*Note which system component is the Capacity-Limit (Inverter, Array, generator, etc)

Estimated Equipment Order Date and Delivery Date: \_\_\_\_\_ / \_\_\_\_\_

**(Note: Purchases made before AMES approval are at Customer's sole risk)**

Estimated Installation Date: \_\_\_\_\_

Estimated In-Service Date: \_\_\_\_\_

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 Small Generating Facility No Larger than 10 kW and return the Certificate of Completion when the Small Generating Facility has been installed.

Customer Signature: \_\_\_\_\_  
Date

Contractor/Consultant Signature: \_\_\_\_\_  
Date

**Processing Fee**

If the Interconnection Request is submitted under this Process for Small Generating Facilities no larger than 10 kW, the Applicant shall submit a deposit of \$100 towards the cost of the feasibility study. **Ames may elect to waive this fee based on its preliminary assessment.**



**Exhibit C**

To the Interconnection Agreement for A Net-Metered Renewable Energy Generation Facility, 10kW and Smaller,  
between

AMES and \_\_\_\_\_, dated \_\_\_\_\_.

**Section A: Authorization.**

**The System may be connected to the AMES system.**

The System has been inspected and tested and the Customer is authorized to connect the System to the AMES electric system.

Signed by:

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

\_\_\_\_\_  
Printed Title:

\_\_\_\_\_  
Date:

– OR –

**Section B: Non-Authorization.**

**The System may not be connected to the AMES electric system.**

The System does not comply with the Interconnection Agreement Requirements between AMES and \_\_\_\_\_, dated \_\_\_\_\_. Accordingly, the Customer **cannot connect** the System to the AMES' electric system.

**REASON:**

Signed by:

\_\_\_\_\_ Date \_\_\_\_\_

\_\_\_\_\_  
Printed Title:

\_\_\_\_\_