AES OHIO STANDARD APPLICATION FOR INTERCONNECTION UNDER THE STANDARD LEVEL 3 REVIEW PATH

STANDARD APPLICATION FORM
FOR INTERCONNECTION OF GENERATION EQUIPMENT GREATER THAN
TWO MEGAWATTS
TO THE ELECTRIC DISTRIBUTION SYSTEM

Electric Distribution Company: AES Ohio

Electric Distribution Company's Designated Contact Person:

AES OHIO
Attn: AES Ohio Interconnection
1065 Woodman Drive
Dayton, OH 45432
Phone: (800) 253-5801
Email: aesohiointerconnection@aes.com

Please complete all sections of the application and include all attachments. Depending upon the information you provide, more information may be required. If so, AES OHIO will contact you at that time.

Processing Fee:

The Company will charge an application fee of one hundred (100) dollars, plus two (2) dollars per kilowatt of the Applicant's system nameplate capacity rating and the actual cost incurred of engineering work done as part of any impact or facilities study. The Company will also charge the Applicant the actual cost of any modification of the Company's Distribution System that would otherwise not be done but for the Applicant's interconnection request.

SECTION 1 – Applicant Information

1.1 Legal Name of the Applicant:

Name: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Phone: (_____) _____
E-mail Address: _____

1.2 Alternative Contact Information (if different from Applicant)

Contact Name: _____
Address: _____
Phone Number: (____) _____
Email address: _____

1.3 Distributed Generation Facility Address (if different from above):

Address: _____
City: _____ State: _____ Zip Code: _____

1.4 Generation Equipment Ownership (Please check one)

( ) Customer owned
( ) Third Party owned
Explanation of ownership agreement: _____

_____

1.5 Do you seek to install an Energy Storage System (ESS), or batteries as part of this interconnection application to the AES Ohio distribution system?

( ) Yes
( ) No

1.6 Please select the ESS setup that suites this application

( ) Stand alone ESS with no Renewable Energy System
( ) Installing ESS and Renewable Energy System in the same application
( ) Add-on ESS to a previously installed/operating customer-generating facility
( ) N/A

1.7 Application Type

( ) Existing Customer with Generation
( ) Existing Customer without Generation
( ) New Customer (No AES Ohio Account)

1.8 Will you be installing an EV

( ) Yes
If yes, please specify which type: _____
Will it have the capability to power your home? ( ) Yes ( ) No

( ) No

1.9 Net Metering
( ) Check if you are applying to be a net metering customer
- If so, please attach the completed Net Metering Service Information Request form

1.10 For generation equipment installed at locations with existing electric service to which the proposed generator will interconnect, provide:

_____ _____
(AES Ohio Account #) (AES Ohio Rate #)

1.11 Requested Point of Interconnection: _____

1.12 Interconnection Applicant's requested in-service date: _____

SECTION 2 – Contractor/Installer Information

2.1 Consulting Engineer or Contractor if applicable

Name: _____
Address: _____
Phone: (_____) _____
E-mail address: _____

SECTION 3 – Service Information

3.1 Please specify the size of the facility address' breaker panel: (A) _____

3.2 Service Capacity (Amps): _____

3.3 Service Voltage (Volts): _____

3.4 Type of Service:

( ) Single Phase
( ) Three Phase

3.5 If 3 Phase Transformer, Indicate Type:
Primary Winding: ( ) Wye ( ) Delta
Secondary Winding: ( ) Wye ( ) Delta
Transformer Size (kVA): _____
Transformer Impedance: _____

SECTION 4 – Generation Equipment Technical Information

4.1 Energy Source:

Solar ____
Wind ____
Hydro ____
Diesel ____
Natural Gas ____
Fuel Oil ____
Other (please specify): _____

4.2 Energy Converter Type:

Photovoltaic ____
Reciprocating Engine ____
Fuel Cell ____

Turbine ____
Other ____

4.3 Energy Production Equipment

Inverter ____
Synchronous ____
Induction ____
Other ____

4.4 Is this proposed generation to be connected on the line or load side of the main service disconnect?
Line Side ____
Load Side ____
Line and Load Side ____

4.5 Location of Protective Interface Equipment on Property (e.g. “southwest corner of lot”):

_____

4.6 Maximum Net Export Capability Requested: _____kW

4.7 Applicant or Customer-Site Load: _____kW

4.8 Energy Producing Equipment Information:

Manufacturer: _____
Model No. _____
Version No. _____

_____

Total kW of Proposed Facility: _____ kW
kVA Rating: _____ kVa Voltage Rating: _____V

Generator Nameplate Rating: _____ kW DC Rating: _____
Generator Nameplate KVAR: _____ AC Rating: _____

4.9 Inverter Information:

Manufacturer: _____
Model No. _____
Version No. _____
kW Rating of each Inverter: _____ kW
Number of Inverters (if more than one): _____
kVA Rating: _____ kVa Voltage Rating: _____V
Power Factor Settings Range: _____

Generator Nameplate Rating: _____ kW DC Rating: _____
Generator Nameplate KVAR: _____ AC Rating: _____

Is the Inverter UL 1741 listed? ( ) Yes ( ) No

SECTION 5 – Energy Storage System Information

5.1 ESS/Battery System Information:

Will the ESS/battery system share an inverter with the Renewable Energy System?
( ) Yes
( ) NO

ESS Manufacturer: _____
ESS Model No. _____
Energy Storage Type (i.e. NaS, Li-ion, Vanadium Flow, PB-Acid, etc.): _____
Battery Charge/Discharge Rating (kW AC): _____
Maximum Battery Charge/Discharge Rate (kW AC per second): _____
Battery Energy Capacity (kWh): _____
Power Factor Settings Range: _____

5.2 ESS Inverter Information:

ESS Inverter Manufacturer: _____
ESS Inverter Model: _____
ESS Inverter Type:
_____ Forced Commutated (Grid Forming) _____ Line Commutated (Grid Following)
ESS Inverter Rated Output (kW): _____
ESS Inverter Rated Output Voltage (V): _____

ESS Inverter Efficiency (%): _____
ESS Inverter Power Factor (%): _____
What is the DC Rated Voltage of the Inverter? (V) _____
What is the DC Rated Current of the Inverter? (A) _____
What is the DC Rated Power of the Inverter? (kW) _____
How many inverters will be used for connection with the ESS? _____
Power Factor Settings Range: _____

5.3 Is the ESS inverter IEEE 1547 certified/listed? ( ) Yes ( ) No
Is the ESS inverter UL 1741 certified/listed? ( ) Yes ( ) No

5.4 How many inverters will be used for connection with the ESS? _____

SECTION 6 – Attachments

6.1 Please provide the following attachments:

- Site electrical One-Line Diagram showing the configuration of all generating facility equipment, current and potential circuits, and protection and control schemes (Note: This One-Line Diagram must be signed and stamped by a licensed Professional Engineer if the generating facility is larger than 50 kW)
- Site documentation that details the operation of the protection and control schemes
- Site documentation that indicates the precise physical location of the proposed generating facility (e.g., USGS topographic map or other diagram or documentation)
- Testing results documenting conformance with the Company's technical requirements
- Installation Test Plan for all the tests required by IEEE 1547
- Periodic Maintenance Schedule recommended by the equipment manufacturer
- General Electric Company Power Systems Load Flow (PSLF) data sheet for the wind generator

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I hereby certify that, to the best of my knowledge, all the information provided in the Interconnection Application is true and correct.

CUSTOMER NAME: TITLE:

_____ _____

CUSTOMER SIGNATURE: DATE:

_____ _____

** If all sections of the application are not complete and/or attachments are missing, it will delay the processing of your application.

AES Ohio Net Metering Service Information Request

Customer's Name: _____

Account Number: _____ Rate Number: _____

Service Address: _____

City: _____ State: OH Zip Code: _____

Contact Person (if different than Customer): _____

Telephone Number: _____

Address: _____

City: _____ State: OH Zip Code: _____

Email Address: _____

Generation equipment ownership (check one):

Will the Customer: Own: _____ Rent: _____ Lease: _____ Other: _____

If other, please describe: _____

A. Total generating capacity: _____ kW
B. Expected annual output: _____ kWh
C. Expected capacity factor = B / (A*8760)

Expected capacity factor: _____ %

Capacity factor is the ratio of what the facility should produce compared to what it would produce if 100% efficient, 100% of the time.

Customer qualifies for net metering if the generating facility uses as its fuel either solar, wind, biomass, landfill gas or hydropower or uses a micro-turbine or fuel cell which is located on the Customer's premises (located at the same address as Customer's account). The Customer's generating equipment must operate in parallel with the Company's transmission and distribution systems. The Customer's generation equipment must be intended to offset part or all of the Customer's requirements for electricity. Generating equipment which is significantly oversized, as compared to the Customer's maximum demand, may not qualify for net metering and may incur additional interconnection costs. The Customer

or its Developer must complete an interconnection application and receive approval to interconnect in order to qualify for net metering service. The Customer's equipment must be

inspected before net metering service may begin. If Customer is served by a competitive retail electric service (CRES) provider, Customer should make arrangements with its CRES provider to receive net metering credits in accordance with OAC 4901:1-21-13.

The Customer acknowledges that it has read the Company's Net Metering rules found in Tariff Sheet No. D5 and agrees to all terms and conditions contained therein, including without limitation those specified in the Company's Distribution Interconnection Tariff, Tariff Sheet No. D35. Specifically, the Customer understands and agrees that a meter, which is capable of registering the flow of electricity in each direction, must be in service at the facility. If a meter is not in service with this capability, the Customer must submit a written request for the Company at the Customer's cost to acquire, install, maintain, and read an approved meter. All costs related to this meter shall be borne by the Customer. Customer acknowledges and agrees that operation of Customer's generation facility is intended primarily to offset part or all of Customer's electricity requirements in accordance with the Company's Net Metering rules.

Meter Exchange Fee:

The purpose of this fee is the installation and/or reprogramming of a bidirectional meter that is capable of measuring the flow of electricity in two directions.

Charge: $95.00

Requested By:

Approved By:

_____
Customer Name

_____
Name

_____
Authorized Signature

_____
Company Signature

Date: _____

Date: _____

RELEASE OF PERSONAL INFORMATION

By signing this form, I acknowledge that I am giving

_____(Consulting Engineer/Contractor) access to my AES Ohio account information. Account information can include account number, rate, service address, phone number,and usage history. **I realize that under the rules and regulations of the public utilities commission of Ohio, I may refuse to allow AES Ohio to release the information set forth above. By my signature I freely give AES Ohio permission to release the information designated above.**

_____
Customer Name:

_____
Customer Signature:

_____
Date: