



**Case Number:** \_\_\_ - \_\_\_ -EL-REN

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**A. Generating Facility**

**Name of Renewable Generating Facility:**

*The name specified will appear on the facility's certificate of eligibility issued by the Public Utilities Commission of Ohio.*

**Facility Location**

**Street Address:**

**City: State: County: Zip Code:**

**Facility Latitude and Longitude**

**Latitude: Longitude:**

*There are internet mapping tools available to determine the latitude and longitude, if you do not have this information.*

*If applicable, U.S. Department of Energy, Energy Information Administration Form EIA-860 Plant Name and Plant Code.*

**EIA-860 Plant Name:**

**EIA Plant Code:**

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**B. Legal Name of the Facility Owner**

*Please note that the facility owner name listed will be the name that appears on the certificate.*

*The address provided in this section is where the certificate will be sent.*

*If the facility has multiple owners, please provide the following information for each on additional sheets.*

**Legal Name of the Facility Owner:**

**Legal Name of Facility Owner Representative:**

**Title:**

**Organization:**

**Street Address:**

**City: State: Zip Code:**

**Phone: Fax:**

**Email Address:**

**Web Site Address (if applicable):**

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**C. List the name, address, telephone number and web site address under which the Applicant will do business in Ohio**

**Legal Name of Facility Owner Representative:**

**Title:**

**Organization:**

**Street Address:**

**City: State: Zip Code:**

**Phone: Fax:**

**Email Address:**

**Web Site Address (if applicable):**

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**D. Name of Generation Facility Operating Company**

**Name of Generation Facility Operating Company:**

**Legal Name of Contact Person:**

**Title:**

**Organization:**

**Street Address:**

**City: State: Zip Code:**

**Phone: Fax:**

**Email Address:**

**Web Site Address (if applicable):**

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**E. Regulatory/Emergency Contact**

**Legal Name of Contact Person:**

**Title:**

**Organization:**

**Street Address:**

**City: State: Zip Code:**

**Phone: Fax:**

**Email Address:**

**Web Site Address (if applicable):**

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## **F. Certification Criteria 1: Deliverability of the Generation into Ohio**

Ohio Revised Code (ORC) Sec. 4928.64(B)(3)

*The facility must have an interconnection with an electric utility.*

Check which of the following applies to the facility's location:

- The facility is located in Ohio.
- The facility is located in a state geographically contiguous to Ohio (IN, KY, MI, PA, WV).
- The facility is located in the following state:

*(If the renewable energy resource generation facility is not located in Ohio, Indiana, Kentucky, Michigan, Pennsylvania, or West Virginia, you are required to submit a POWER FLOW study by one of the regional transmission organizations (RTO) operating in Ohio, either PJM or Midwest ISO, demonstrating that the power from the facility is physically deliverable into the state of Ohio. This study must be appended to the application as an exhibit. THE FACILITY MUST BE INTERCONNECTED TO TRANSMISSION LINES. FOR ADDITIONAL INFORMATION ON DELIVERABILITY REQUIREMENTS, PLEASE REFER TO THE COMMISSION FINDING & ORDER of 3/23/11 IN CASE NO. 09-555-EL-REN.)*

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## **G. Certification Criteria 2: Qualified Resource or Technology**

*You should provide information for only one resource or technology on this application; please check and/or fill out only one of the sections below. If you are applying for more than one resource or technology, you will need to complete a separate application for each resource or technology.*

**G.1. For the resource or technology you identify in Sections G.4 - G.13 below, please provide a written description of the system.**

**G.2. Please include a detailed description of how the output of the facility is going to be measured and verified, including the configuration of the meter(s) and the meter type(s).**

**G.3. Please submit digital photographs that depict an accurate characterization of the renewable generating facility. Please indicate the date(s) the photographs were taken. For existing facilities, these photographs must be submitted for your application to be reviewed. For proposed facilities or those under construction, photographs will be required to be filed within 30 days of the on-line date of the facility.**

**The Applicant is applying for certification in Ohio for a facility using one of the following qualified resources or technologies (Sec. 4928.01 ORC):**

**G.4 SOLAR PHOTOVOLTAIC**

**G.4a Location of the PV Array:**

Description:

**G.4b Total number of Modules:**

**G.4.1 PV Modules**

For each PV module, provide the following information:

**G.4.1.a Manufacturer:**

**G.4.1.b Model and Rating:**

**G.5 SOLAR THERMAL (FOR ELECTRIC GENERATION)**

**G.6 WIND GENERATOR(S)**

*If your system includes multiple generators, please provide the following information for each unique generator you have in your system*

**Manufacturer:**

**Model Name and Number:**

**Generator Nameplate Capacity (kilowatts AC):**

**Wind Hub Height (ft):**

**Wind Rotor Diameter (ft):**

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**G.7 \_\_ HYDROELECTRIC** ("hydroelectric facility" means a hydroelectric generating facility that is located at a dam on a river, or on any water discharged to a river, that is within or bordering this state or within or bordering an adjoining state (Sec. 4928.01(35) O.R.C.)

Check each of the following to verify that the facility meets each of the statutory standards (Sec. 4928.01(35) O.R.C.):

- (a) The facility provides for river flows that are not detrimental for fish, wildlife, and water quality, including seasonal flow fluctuations as defined by the applicable licensing agency for the facility.
- (b) The facility demonstrates that it complies with the water quality standards of this state, which compliance may consist of certification under Section 401 of the "Clean Water Act of 1977," 91 Stat. 1598, 1599, 33 U.S.C. 1341, and demonstrates that it has not contributed to a finding by this state that the river has impaired water quality under Section 303(d) of the "Clean Water Act of 1977," 114 Stat. 870, 33 U.S.C. 1313.
- (c) The facility complies with mandatory prescriptions regarding fish passage as required by the Federal Energy Regulatory Commission license issued for the project, regarding fish protection for riverine, anadromous, and catadromus fish.
- (d) The facility complies with the recommendations of the Ohio Environmental Protection Agency and with the terms of its Federal Energy Regulatory Commission license regarding watershed protection, mitigation, or enhancement, to the extent of each agency's respective jurisdiction over the facility.
- (e) The facility complies with provisions of the "Endangered Species Act of 1973," 87 Stat. 884, 16 U.S.C. 1531 to 1544, as amended.
- (f) The facility does not harm cultural resources of the area. This can be shown through compliance with the terms of its Federal Energy Regulatory Commission license or, if the facility is not regulated by that commission, through development of a plan approved by the Ohio Historic Preservation Office, to the extent it has jurisdiction over the facility.
- (g) The facility complies with the terms of its Federal Energy Regulatory Commission license or exemption that are related to recreational access, accommodation, and facilities or, if the facility is not regulated by that commission, the facility complies with similar requirements as are recommended by resource agencies, to the extent they have jurisdiction over the facility; and the facility provides access to water to the public without fee or charge.
- (h) The facility is not recommended for removal by any federal agency or agency of any state, to the extent the particular agency has jurisdiction over the facility.

**G.7 .1** Is the facility currently certified by the Low-Impact Hydro Institute?

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## **G.8 \_\_ GEOTHERMAL**

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**G.9\_\_ SOLID WASTE** (as defined in ORC section 3734.01), electricity generation using fuel derived from solid wastes through fractionation, biological decomposition, or other process that does not principally involve combustion. (Sec. 4928.01(A)(35) O.R.C.)

**G.9a Describe the content (fully characterize the fuel material) and source of solid waste:**

**G.9b What is the expected heat content for each of the fuel(s) used by the plant?**

**G.9c Is the facility co-firing more than one fuel type?**

*If co-firing an electric generating with a solid waste resource, the proportion of fuel input attributable to the solid waste resource shall dictate the proportion of electricity output from the facility that can be considered solid waste energy.*

**G.9d Identify all fuel types used by the facility and respective proportions (show by the percent of heat input):**

**G.9e Please submit (or input here) the formula for computing the proportions of output per fuel type by MWh or kWh generated.**

**G.9f What is the projected annual gross generation from each fuel type:**

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**G.10\_\_ BIOMASS (includes biologically-derived methane gas, such as landfill gas)**

**G.10a Identify the fuel type used by the facility:**

**Landfill gas:** \_\_\_\_

**Solid fuel:**

- \_\_\_\_ Wood
- \_\_\_\_ Agricultural
- \_\_\_\_ Other

**Wood and paper manufacturing waste:**

**Biogas (anaerobic digestion):**

- \_\_\_\_ On-farm
- \_\_\_\_ Wastewater treatment
- \_\_\_\_ Food processing
- \_\_\_\_ Other

**Biofuel (biodiesel):** \_\_\_\_

**Biomass (other):** \_\_\_\_

**G.10b Describe the content (fully characterize the fuel material) and source of solid waste:**

**G.10c What is the expected heat content for each of the fuels used by the plant?**

**G.10d Is the facility co-firing more than one fuel type?**

*If co-firing an electric generating facility with a biomass energy resource, the proportion of heat input attributable to the biomass energy resource shall dictate the proportion of electricity output from the facility that can be considered biomass energy.*

**G.10e List all fuel types used by the facility and respective proportions (show by the percent of heat input):**

**G.10f Please submit (or input here) the formula for computing the proportions of output per fuel type by MWh or kWh generated:**

**G.10g What is the projected annual gross generation from each fuel type?**

**G.11 \_\_ FUEL CELL** (any fuel cell used in the generation of electricity, including, but not limited to, a proton exchange membrane fuel cell, phosphoric acid fuel cell, molten carbonate fuel cell, or solid oxide fuel cell; Sec. 4928.01(35)(A) O.R.C.).

**Identify all fuel types used by the facility and respective proportions:**

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**G.12 \_\_ STORAGE FACILITY**

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**G.13 \_\_ ABANDONED COAL MINE METHANE**

For the abandoned coal mine that is the source of the methane, provide the following:

**A. Mine name (if known):**

**B. Location of methane extraction point(s)**

Latitude:

Longitude:

**C. Year mine was abandoned (if known):**

**D. Is the coal mine methane delivered to generating facility via a dedicated pipeline?**

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**G.15 WASTE ENERGY RECOVERY SYSTEM**

To be eligible, a waste energy recovery system **cannot be, or have been, included in an electric distribution utility's energy efficiency program on or after January 1, 2012.**

A facility that generates electricity through the conversion of energy from either of the following (check one):

Exhaust heat from engines or manufacturing, industrial, commercial, or institutional sites, except for exhaust heat from a facility whose primary purpose is the generation of electricity. The waste energy recovery system must be placed into service or retrofitted on or after September 10, 2012;

Reduction of pressure in gas pipelines before gas is distributed through the pipeline, provided that the conversion of energy to electricity is achieved without using additional fossil fuels. The waste energy recovery system must be placed into service or retrofitted on or after September 10, 2012.

A facility at a state institution of higher education as defined in section 3345.011 of the Revised Code that recovers waste heat from electricity-producing engines or combustion turbines and that simultaneously uses the recovered heat to produce steam, provided that the facility was placed into service between January 1, 2002, and December 31, 2004.

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## H. Certification Criteria 3: Placed-in-Service Date (Sec. 4928.64. (A)(1) O.R.C.)

The Renewable Energy Facility:

\_\_\_ has a placed-in-service date before January 1, 1998; Date: \_\_\_

\_\_\_ has a placed-in-service date on or after January 1, 1998; Date: \_\_\_

\_\_\_ has been modified or retrofitted on or after January 1, 1998; Date: \_\_\_

Please provide a detailed description of the modifications or retrofits made to the facility that rendered it eligible for consideration as a qualified renewable energy resource. In your description, please include the date of initial operation and the date of modification or retrofit to use a qualified renewable resource. Please include this description as an exhibit attached to your application filing and identify the subject matter in the heading of the exhibit.

\_\_\_ Not yet online; projected in-service date: \_\_\_

**H.1** Is the renewable energy facility owner a mercantile customer?

ORC Sec. 4928.01 (19) "Mercantile customer" means a commercial or industrial customer if the electricity consumed is for nonresidential use and the customer consumes more than seven hundred thousand kilowatt hours per year or is part of a national account involving multiple facilities in one or more states.

Has the mercantile customer facility owner committed to integrate the resource under the provisions of Rule 4901:1-39-08 O.A.C? \_\_\_

If yes, please insert/submit a copy of your approved application as an exhibit to this filing.

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## I. Facility Information

I.a The nameplate capacity of the entire facility kilowatts (kW): (megawatts (MW): )

I.b If applicable, what is the expected heat rate of resource used per kWh of net generation:  
BTU/kWh

I.1 For each generating unit, provide the following information:

<u>Unit In-Service</u> <u>Date</u>	<u>Unit Nameplate</u> <u>Capacity (MW)</u>	<u>Projected Gross</u> <u>Annual Generation</u>	<u>Expected Annual</u> <u>Capacity Factor %</u>	<u>Number of</u> <u>Generating Units</u>
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$$\text{Capacity Factor \%} = \frac{\text{Projected Annual Generation}}{\text{Nameplate Capacity} \times 8,760} \times 100$$

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## J. Regional Transmission Organization Information

In which Regional Transmission Organization area is your facility located:

\_\_\_ Within Geographic Area of PJM Interconnection, L.L.C.

\_\_\_ Within Geographic Area of Midwest ISO

\_\_\_ Other (specify):

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## K. Attribute Tracking System Information

Are you currently registered with an attribute tracking system: \_\_\_

In which attribute tracking system are you currently registered or in which do you intend to register (*the tracking system you identify will be the system the PUCO contacts with your eligibility certification*):

\_\_\_ GATS (Generation Attribute Tracking System)

\_\_\_ M-RETS (Midwest Renewable Energy Tracking System)

\_\_\_ Other (specify):

**K.1** Enter the generation ID number you have been assigned by the tracking system:

(If the generation ID number has not yet been assigned, you will need to file this number in the PUCO Case Docket within 15 days of the facility receiving this number from the tracking system).

**K.2** Has any of the generation of the facility been tracked as RECS that have been sold or otherwise consumed? \_\_\_

## L. Other State Certification

Is the facility certified by another state as an eligible generating resource to meet the renewable portfolio standards of that state? \_\_\_\_

**L.1** If yes, for each state, provide the following information:

<u>Name of State</u>	<u>State Certification Agency</u>	<u>State Certification Number</u>	<u>Certification Date Issued</u>
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## M. Type of Generating Facility

Please check all of the following that apply to the facility:

- Utility Generating Facility:
  - Investor Owned Utility
  - Rural Electric Cooperative
  - Municipal System
  - Electric Services Company (competitive retail electric service provider certified by the PUCO)
  - Distributed Generation with a net metering and interconnection agreement with a utility.  
Identify the Utility: \_\_\_\_
  - Distributed Generation with both on-site use and wholesale sales.  
Identify the Utility: \_\_\_\_
  - Distributed Generation, interconnected without net metering.  
Identify the Utility: \_\_\_\_
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## **N. Meter Specifications**

### **Metering Requirements**

- 1. If the renewable energy resource generating facility is 6 kW or below, the output may be measured with either an inverter meter or a utility grade meter.***
- 2. All facilities that are larger than 6 kW must measure the output of the facility with a utility grade meter. Facilities that are larger than 6 kW and that are not measuring output with a utility grade meter will not be certified. OAC 4901:1-40-04 (D)(1)***
- 3. Please only report on the meter or the meters used to measure the output from the facility which will be reported to the attribute tracking system.***

SAMPLE

**N.a** The meter(s) that are measuring output from the facility are:

—— Inverter Meter(s)

—— Utility Grade Meter(s) *(Must meet ANSI 12.1, or demonstrate an accuracy level of  $\pm 2\%$ )*

**N.1** Please provide the following information for each meter used in your system.

**N.1.a** Manufacturer:

**N.1.b** Serial Number:

**N.1.c** Type:

**N.1.d** Date of Last Certification:

Attach a photograph of the meter(s) with date image taken. The meter reading(s) must be clearly visible in the photograph.

**N.1.e** Report the total meter reading number at the time the photograph was taken and specify the appropriate unit of generation (e.g., kWh):

SAMPLE

**The Public Utilities Commission of Ohio reserves the right to verify the accuracy of the data reported to the tracking system and to the PUCO.**

Version: June 3, 2013

SAMPLE