



Case No.: 11-3201-EL-REN

A. Name of Renewable Generating Facility: Conesville Generating Station (Units 3, 4, 5, 6)

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

Facility Location

Street Address: 47201 CR 273

City: Conesville State: OH County: ----- Zip Code: 43811

Facility Latitude and Longitude

Latitude: 40.182601 N Longitude: 81.876814 W

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: Conesville Plant

EIA Plant Code: 2840

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: Columbus Southern Power Company (CSP)

Legal Name of Facility Owner Representative (First Name, MI, Last Name): Joe Hamrock

Title: President of COO Columbus Southern Power Company (CSP)

Organization: AEPOhio

Street Address: 1 Riverside Plaza

City: Columbus

State: OH

Zip Code: 43215

Phone: 6148836670

Fax:

Email Address: jhamrock@aep.com

Web Site Address: www.aepohio.com

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 (First Name, MI, Last Name): Joe Hamrock
Title: President and COO Columbus Southern Power Company (CSP)
Organization: AEPOhio
Street Address: 1 Riverside Plaza
City: Columbus State: OH Zip Code: 43215
Phone: 6148836670 Fax:
Email Address: jhamrock@aep.com
Web Site Address: www.aepohio.com

D. Name of Generation Facility Operating Company:

Name of Generation Facility Operating Company: Columbus Southern Power Company
Legal Name of Contact Person (First Name, MI, Last Name): Mark Peifer
Title: VP - Generating Assets AEP Ohio
Organization: Fossil & Hydro Generation
Street Address: 155 West Nationwide Blvd
City: Columbus State: Ohio Zip Code: 43215
Phone: 6145837490 Fax: Email Address: mapeifer@aep.com
Web Site Address (if applicable): www.aep.com

E. Regulatory/Emergency contact

Legal Name of Contact Person (First Name, MI, Last Name): Selywn J. Dias
Title: VP Regulatory & Finance
Organization: AEPOhio
Street Address: 1 Riverside Plaza
City: Columbus State: OH Zip Code: 43215
Phone: 6148836701 Fax:
Email Address: sjdias@aep.com
Web Site Address: www.aep.com

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:

Yes The facility is located in Ohio.

No The facility is located in a state geographically contiguous to Ohio (Indiana, Kentucky, Michigan, Pennsylvania, or West Virginia).

No 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.)

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.

The technology Conesville plant will be using is co-firing of biofuels. Co-firing in this sense refers to blending fossil and renewable fuels prior to combustion and generation of energy.

The intent is to use biodiesel or a blend of biodiesel and No. 2 fuel oil as a direct substitute for No. 2 fuel oil.

On January 7, 2011 the Ohio EPA approved the use of 20% biodiesel and 80% fuel oil for units 4, 5, and 6. A technical evaluation is underway for unit 3 and will likely be permitted in the future to use the same blend of fuels.

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).

The net generation from the unit is measured using the meters identified in Section N and will follow the current processes used at the plant.

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.



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

G.10a Identify the fuel type used by the facility: Biomass, more specifically Biodiesel

Landfill gas: N

Solid fuel

Wood: N

Agricultural: N

Other: N

Wood and paper manufacturing waste: N

Biogas (anaerobic digestion)

On-farm: N

Wastewater treatment: N

Food processing: N

Other: N

Biofuel (biodiesel): N

Biomass (other): N

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

Biodiesel compliant with ASTM D-6751-09 Standard.

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

Biodiesel B20 will have a heat content of ~136,000 Btu/gallon and a sulfur content of less than 15 ppm.

The coal will have an average heat content of 11,000 – 12,500Btu/lb, moisture content of 6% - 8%, ash of 6% - 8%, and SO₂ emission rate of 1.7 - 6lbs/mmBtu. These are average values.

The fuel oil will have an average heat content of 138,500 Btu/gallon and comply with the Ultra Low Sulfur Diesel standard of sulfur less than 15 ppm.

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

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):

Primary fuel = Coal which will have up to 100% heat input

Secondary fuel for startup and flame stabilization = Biodiesel/Fuel Oil which has historically been up to 2% of overall 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:

$$\text{MWhREC} = ((\text{mbd} * \text{HHVbd}) / (\text{mbd} * \text{HHVbd} + \text{mfo} * \text{HHVfo} + \text{mc} * \text{HHVc} * 2,000$$

lb/ton)) * MWhNET,MEASURED

Where:

MWhREC = Renewable energy produced

mbd = measured mass of biodiesel consumed (gallons)

mfo = measured mass of fuel oil consumed (gallons)

mc = measured mass of coal consumed (tons)

HHVbd = biodiesel heating value (Btu/gal)

HHVfo = fuel oil heating value (Btu/gal)

HHVc = coal heating value (Btu/lb)

MWhNET,MEASURED = measured megawatt-hours

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

For units 3, 4, 5, and 6 the total projected generation ranges from ~5,000,000,000 kwh/year to ~11,000,000,000 kwh/year. The primary generation will come from coal and the B20 (20% biodiesel, 80% fuel oil blend) is projected to be less than 1% of total heat input or ~50,000,000 kwh/year (for the renewable portion of 20% less than 10,000,000 kwh/year)

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

The Renewable Energy Facility:

No has a placed-in-service date before January 1, 1998; (month/day/year):

No has a placed-in-service date on or after January 1, 1998; (month/day/year):

Yes has been modified or retrofitted on or after January 1, 1998; (month/day/year): 4/1/11

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.

The modification is introducing biodiesel as a renewable fuel to the facility. The biodeisel contract is in place and initial deliveries started in April 2011.

There are four units at the plant currently. The associated initial operation dates are below:

U3 1962

U4 1973

U5 1976

U6 1978

No Not yet online; projected in-service date (month/day/year):

H.1 Is the renewable energy facility owner a mercantile customer? No

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? No

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

I. Facility Information

I.a The nameplate capacity of the entire facility kilowatts (kW): 1,695,000.00 or in megawatts (MW): 1,695

I.b If applicable, what is the expected heat rate of resource used per kWh of net generation:
10,500 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>
1/1/62	165	700,000	50.0	1
1/1/73	780	3,400,000	50.0	1
1/1/76	375	50	1,600,000.0	1
1/1/78	375	1,600,000	50.0	1

$$\text{Capacity Factor \%} = \frac{\text{Projected Annual Generation}}{\text{Nameplate Capacity} \times 8,760} \times 100$$

J. Regional Transmission Organization Information

In which Regional Transmission Organization area is your facility located:

Yes Within Geographic Area of PJM Interconnection, L.L.C.

No Within Geographic Area of Midwest ISO

No Other (specify):

K. Attribute Tracking System Information

Are you currently registered with an attribute tracking system: Yes

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)*:

Yes GATS (Generation Attribute Tracking System)

No M-RETS (Midwest Renewable Energy Tracking System)

Other (specify):

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

MSET89120103 MSET89120104 MSET89120105 MSET89120106

(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).

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? No

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

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

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

Yes Utility Generating Facility:

Yes Investor Owned Utility

No Rural Electric Cooperative

No Municipal System

No Electric Services Company (competitive retail electric service provider certified by the PUCO)

No Distributed Generation with a net metering and interconnection agreement with a utility.
Identify the utility:

No Distributed Generation with both on-site use and wholesale sales.
Identify the utility with which the facility is interconnected:

No Distributed Generation, interconnected without net metering.
Identify the utility with which the facility is interconnected:

N. Meter Specifications

Metering Requirements

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.

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)

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.

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

N Inverter Meter(s)

Y 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: Schneider Electric (Square D Powerlogic)

N.1.b Serial Number: LI-0812A433-01

N.1.c Type: ION 7550

N.1.d Date of Last Certification: December 01, 2008

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): 539556560

February 14, 2011



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

N Inverter Meter(s)

Y 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: Scientific Columbus

N.1.b Serial Number: 12097

N.1.c Type: 102P

N.1.d Date of Last Certification: October 01, 2009

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): 945785000

February 14, 2011



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

N Inverter Meter(s)

Y 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: Schneider Electric (Square D Powerlogic)

N.1.b Serial Number: LI-1007A255-02

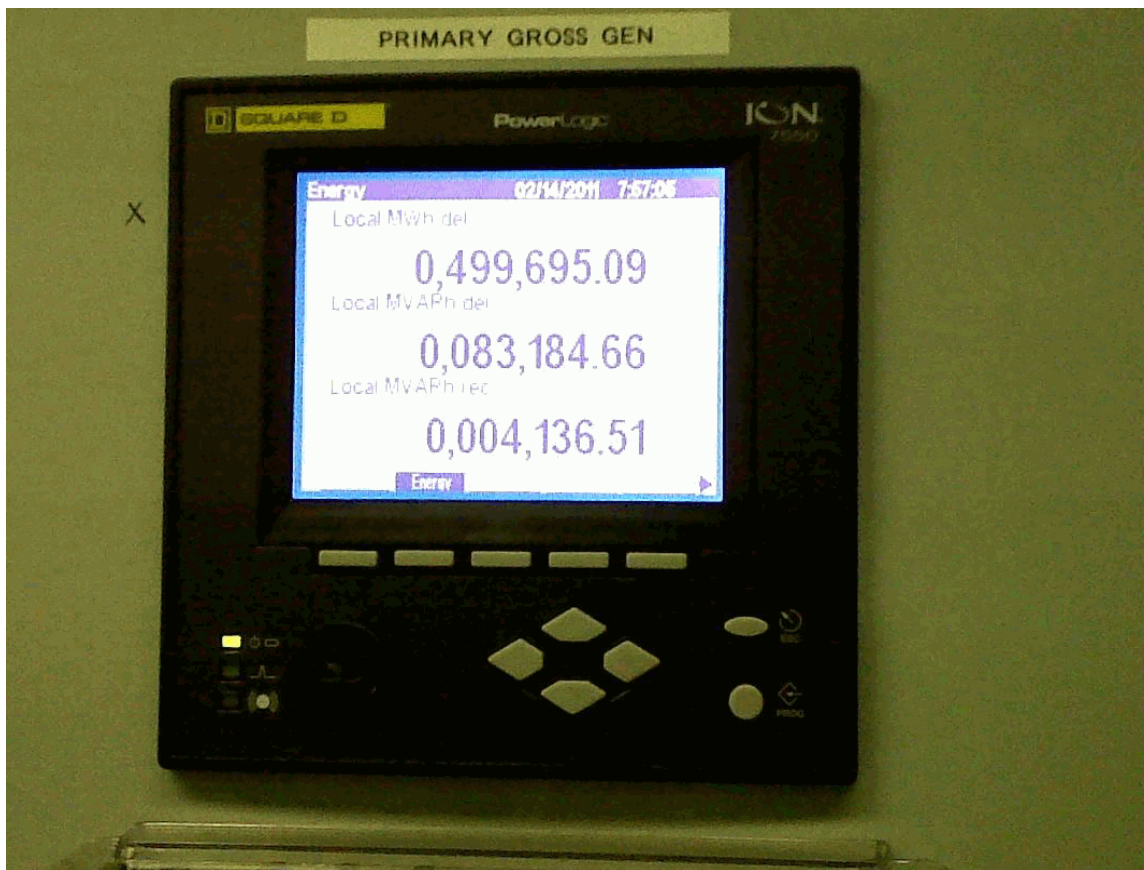
N.1.c Type: ION 7550

N.1.d Date of Last Certification: July 01, 2010

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): 499695090

February 14, 2011



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

N Inverter Meter(s)

Y 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: Scientific Columbus

N.1.b Serial Number: 22809

N.1.c Type: JEM 1

N.1.d Date of Last Certification: April 12, 2006

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): 979456000

March 24, 2010



O. Start date from which applicant requests to begin reporting generation towards the creation of Renewable Energy Credits (RECs) for Ohio's purposes

The start date from which an attribute tracking system will begin to count generation data toward the creation of renewable energy credits for Ohio's purposes will be the date of certificate issuance in the state of Ohio (i.e. generation prior to the date of certification would not be recognized), unless the facility satisfies one of the criterion established in the Commission's June 17, 2009 Entry on Rehearing issued in Case No. 08-888-EL-ORD.

In that Entry, the Commission found it to be appropriate to recognize the creation of RECs back to July 31, 2008, the date in which the Ohio alternative energy portfolio standard law became effective, provided that "The facility was a participant in an existing attribute tracking system during that time or had a meter in place which can accurately demonstrate generation levels from July 31, 2008 forward." (June 17, 2009 Entry on Rehearing at 34.)

(1) Existing attribute tracking system:

- a. For facilities that are currently participating in an attribute tracking system, it is not sufficient to merely be registered with the tracking system; you also must be reporting generation data.
- b. If the facility was a participant in an existing attribute tracking system, please state the specific start date that will be used to recognize historical RECs.

(2) Meter which can accurately demonstrate generation levels from July 31, 2008:

- a. For facilities which have had a meter in place, accurately demonstrating generation levels must include documentation from an electric remote monitoring and reporting system, from the specified start date, and recorded on at least a monthly basis.
- b. If the facility had a meter that accurately demonstrates generation levels, please state the specific start date, and attach documentation from the remote monitoring and reporting system.

Note: An application that leaves section O blank, or does not include the required documentation, will be assigned a start date for Ohio that corresponds with the date of Ohio certification.

If the facility was a participant in an existing attribute tracking system, please state the specific start date, in accordance with the tracking system's rules, that will be used to recognize historical RECs: April 01, 2011

If the facility had a meter that accurately demonstrates generation levels, please state the specific start date, and below insert documentation from the remote monitoring and reporting system:
April 01, 2011

Also, in the Commission's Entry on Rehearing, the Commission explained that consistent with its policy on double counting, the Commission "will not retroactively recognize any past RECs which have been sold or otherwise consumed." (June 17, 2009 Entry on Rehearing at 34.)

Has any of the generation of the facility been tracked as RECS that have been sold or otherwise consumed? No



**Public Utilities
Commission**

Application for Certification as an
Eligible Ohio Renewable Energy
Resource Generating Facility

Case No.: 11-3201-EL-REN

AFFIDAVIT

State of Ohio:

Columbus ss.
(Town)

County of Franklin :

Marguerite C. Mills, Affiant, being duly sworn/affirmed according to law, deposes and says that:

1. I am the duly authorized representative of Conesville Generating Station (Units 3, 4, 5, 6).
2. I have personally examined and am familiar with all information contained in the foregoing application, including any exhibits and attachments, and that based upon my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete.
3. The facility has obtained or will obtain and will maintain all required local, state and federal environmental permits.
4. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Marguerite C. Mills, Vice President Fuel Procurement
Signature of Affiant & Title

Sworn and subscribed before me this 16th day of June, 2011 Month/Year

Janice Figgins
Signature of official administering oath

Janice Figgins, Notary Public
Print Name and Title

My commission expires on 4/3/2016



JANICE FIGGINS
Notary Public
In and for the State of Ohio
My Commission Expires
4-3-2016

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 15, 2011

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in

Case No(s). 11-3201-EL-REN

Summary: Application electronically filed by Anne M Vogel on behalf of Columbus Southern Power Company