



**Case Number: 19-1221-EL-REN**

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**A. Generating Facility**

**Name of Renewable Generating Facility:** Energy Developments of Brent Run

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

**Facility Location**

**Street Address:** 8383 Vienna Road

**City:** Montrose **State:** MI **County:** Genesee **Zip Code:** 48457

**Facility Latitude and Longitude**

**Latitude:** 43.176420 **Longitude:** -83.847974

*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:** Brent Run Generating Station

**EIA Plant Code:** 54910

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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:** Energy Developments North America

**Legal Name of Facility Owner Representative:** Chris D. Eastgate

**Title:** CFO

**Organization:** Energy Developments

**Street Address:** 608 S. Washington Ave

**City:** Lansing **State:** MI **Zip Code:** 48933

**Phone:** 517.208.0743 **Fax:**

**Email Address:** chris.eastgate@energydi.com

**Web Site Address (if applicable):** www.energydevelopments.com.au

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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:** Patrick Devon

**Title:** Energy Analyst

**Organization:** Michigan Public Power Agency

**Street Address:** 809 Centennial Way

**City:** Lansing **State:** MI **Zip Code:** 48917

**Phone:** 517.853.1574 **Fax:** 517.323.8373

**Email Address:** pdevon@mpower.org

**Web Site Address (if applicable):** www.mpower.org

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

**Name of Generation Facility Operating Company:** Energy Developments of Brent Run

**Legal Name of Contact Person:** Rocco Tondo

**Title:** COO

**Organization:** Energy Developments

**Street Address:** 608. S. Washington Ave

**City:** Lansing **State:** MI **Zip Code:** 48933

**Phone:** 517.208.0743 **Fax:**

**Email Address:** rocky.tondo@energydi.com

**Web Site Address (if applicable):** www.energydevelopments.com.au

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**E. Regulatory/Emergency Contact**

**Legal Name of Contact Person:** Daniel J. Zimmerman

**Title:** Director of NA HSE & Compliance

**Organization:** Energy Developments

**Street Address:** 608 S. Washington Ave

**City:** Lansing **State:** MI **Zip Code:** 48933

**Phone:** 517.208.0737 **Fax:**

**Email Address:** dan.zimmerman@energydevelopments.com

**Web Site Address (if applicable):** www.energydevelopments.com.au

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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:

No The facility is located in Ohio.

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

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.)*

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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.**

Located on the Brent Run landfill operated by Waste Connections, the Brent Run Generating facility is a 7.0 MW landfill gas to energy facility owned and operated by Energy Developments Inc. The site utilizes an active gas extraction system to collect the methane that is then cleaned and fed to five different Caterpillar gensets (one 3512 and the rest 3520s) that produce electricity. All of the electricity and environmental attributes produced by the facility are sold under a long-term contract to Michigan Public Power Agency.

### **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 output of the facility is verified by three (3) Siemens Type 2500 utility grade bi-directional meters under the following configuration:

Engines 1 & 2: Meter #1, SN: 9M2 00028983

Engine 3: Meter #2, SN: 9M2 00044057

Engines 4 & 5: Meter #3, SN: 9M2 00042755

The facility is interconnected with MISO and outfitted with RTU and data connections. The meters are maintained according to manufacturer specifications.

The facility is currently registered as a Michigan Renewable Generator and registered with MIRECs under two (2) Gen Numbers: GEN46 & GEN178. It is the intent of the owner to delist the facility from MIRECs and list it with GATS upon certification as a Ohio Renewable Generator

**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.**

February 01, 2019



February 01, 2019



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

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

**Landfill gas:** Yes

**Solid fuel:**

No Wood  
No Agricultural  
No Other

**Wood and paper manufacturing waste:** No

**Biogas (anaerobic digestion):**

No On-farm  
No Wastewater treatment  
No Food processing  
No Other

**Biofuel (biodiesel):** No

**Biomass (other):** No

**G.10b Describe the content (fully characterize the fuel material) and source of solid waste:** The fuel source is 100% landfill gas from the Brent Run Landfill. This gas is composed of approximately 50% methane with the remaining being water, CO<sub>2</sub> and other no-methane organic compounds.

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

Approximately 10,000 BTU / KWh, + / - 3%

**G.10d Is the facility co-firing more than one fuel type?** No

*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):**

100% landfill gas

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

NA

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

Approximate generation of the entire facility is 58,250 MWhs per year, all from landfill gas.

## 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; Date:

Yes has a placed-in-service date on or after January 1, 1998; Date: 11/21/98

No 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.

No Not yet online; projected in-service date:

**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): 7,000.00 (megawatts (MW): 7)

I.b If applicable, what is the expected heat rate of resource used per kWh of net generation:  
10,000 BTU/kWh

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

<u>Unit In-Service Date</u>	<u>Unit Nameplate</u>	<u>Projected Gross</u>	<u>Expected Annual</u>	<u>Number of</u>
	Capacity (MW)	Annual Generation	Capacity Factor %	Generating Units
11/21/98	1.6	13,735	98.0	1
11/21/98	1.6	13,735	98.0	1
11/19/10	0.6	5,150	98.0	1
11/9/12	1.6	13,735	98.0	1
11/16/12	1.6	13,735	98.0	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:

No Within Geographic Area of PJM Interconnection, L.L.C.

Yes 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: GEN46 & GEN178 - MIRECS  
*(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? Yes

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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? Yes

**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>
MICHIGAN	MI Public Service Commission	GEN46 & GEN178	01/02/2009

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## M. Type of Generating Facility

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

- No      Utility Generating Facility:
- No      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:
- Yes      Distributed Generation with both on-site use and wholesale sales.  
Identify the Utility: Consumers Energy Company
- No      Distributed Generation, interconnected without net metering.  
Identify the Utility:
- 

## 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.*

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

No Inverter Meter(s)

Yes 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:** Siemens

**N.1.b Serial Number:** 0028983

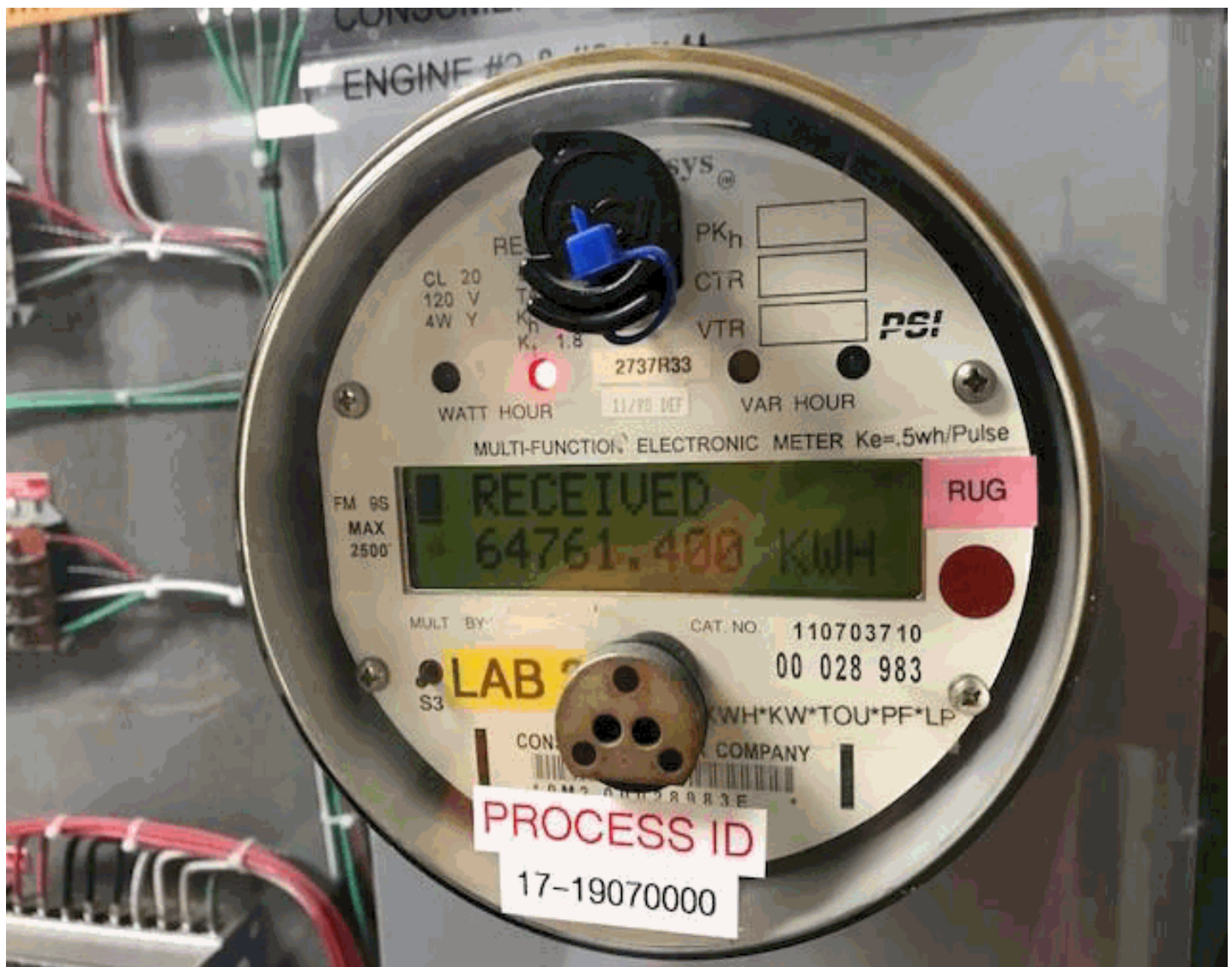
**N.1.c Type:** MAX 2500

**N.1.d Date of Last Certification:** May 20, 2019

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): 64761

9/5/2018 12:00:00AM



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

No Inverter Meter(s)

Yes 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:** Siemens

**N.1.b Serial Number:** 00044057

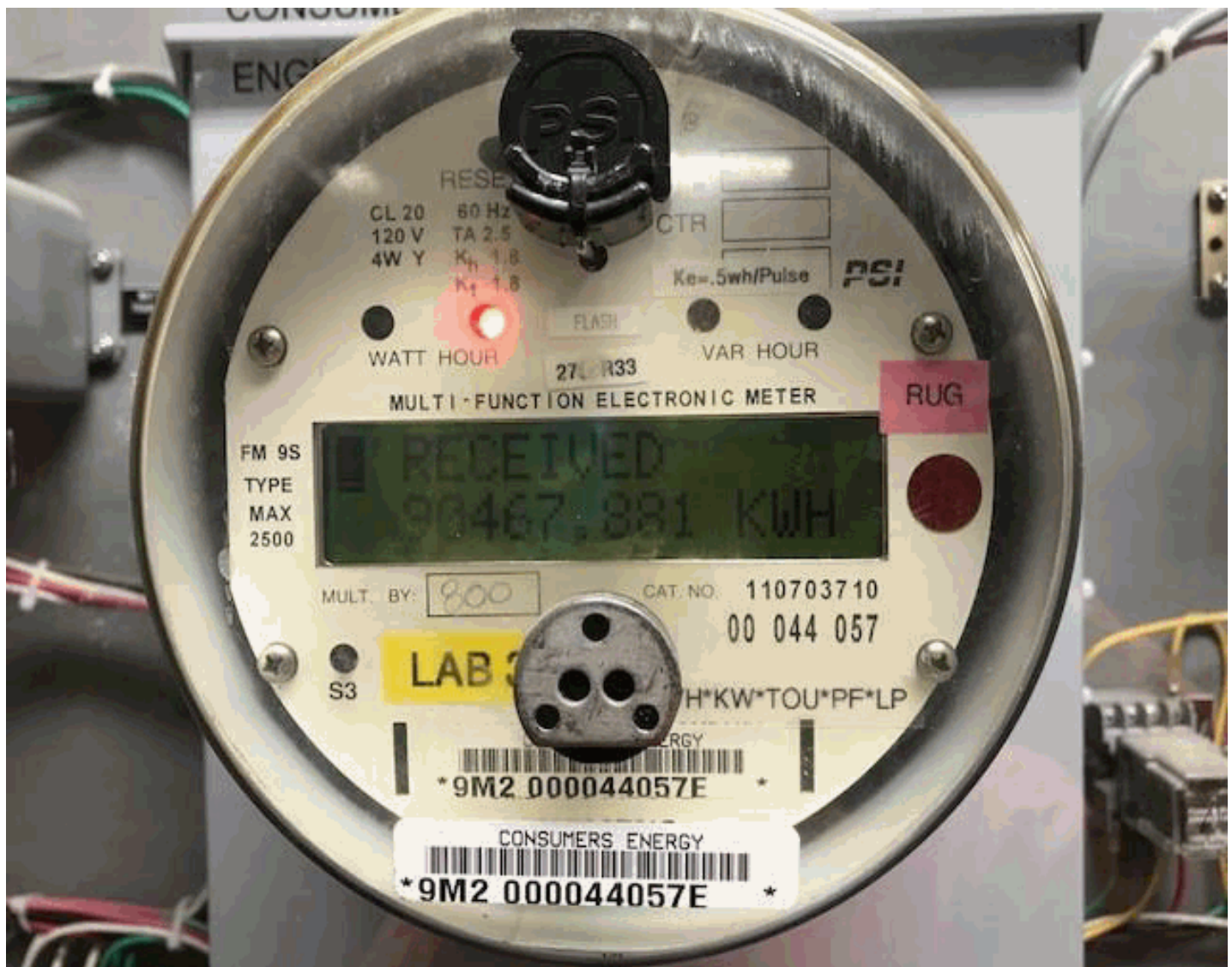
**N.1.c Type:** 2500

**N.1.d Date of Last Certification:** July 19, 2005

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): 90467

9/5/2018 12:00:00AM





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

No Inverter Meter(s)

Yes 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:** Siemens

**N.1.b Serial Number:** 0042755

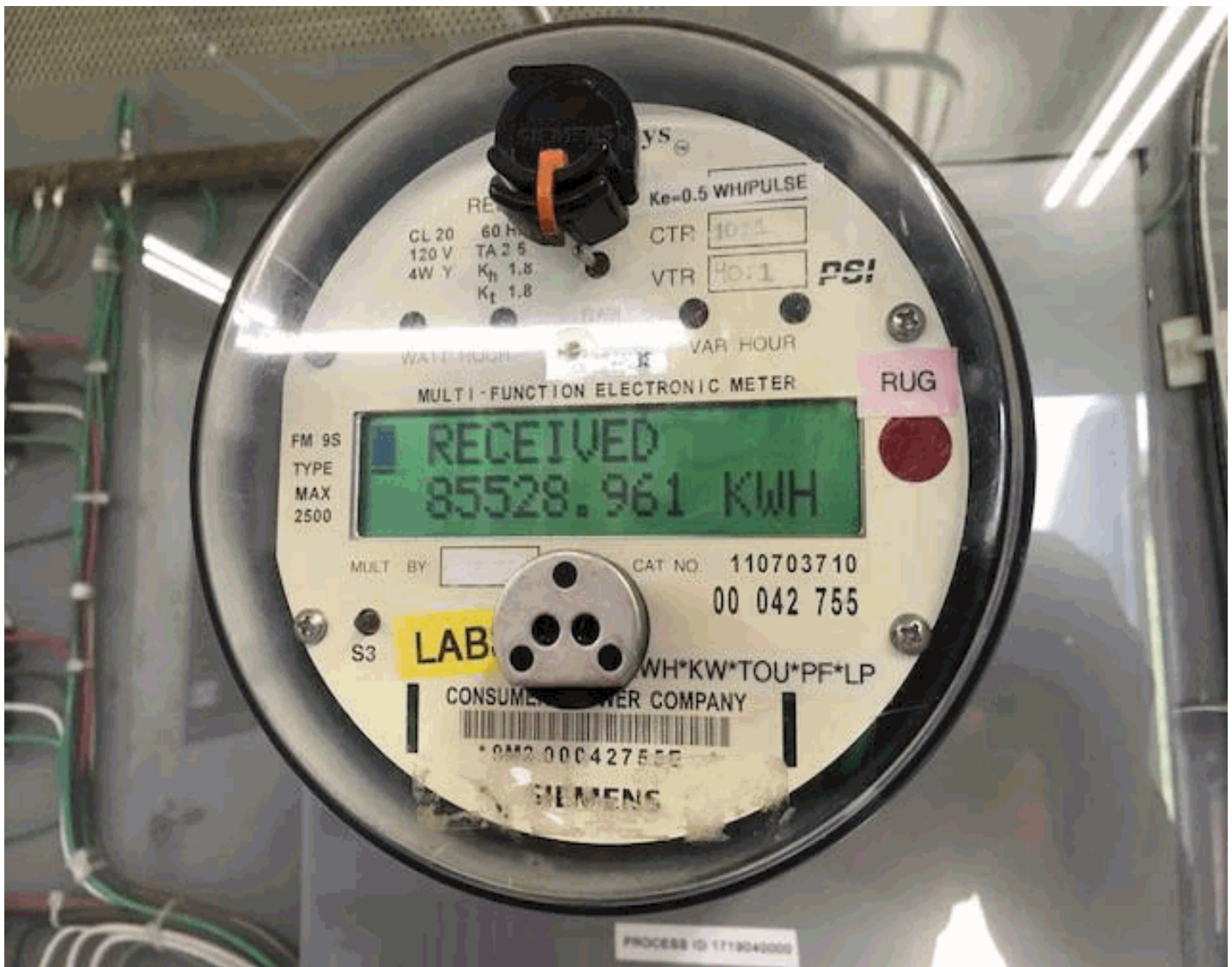
**N.1.c Type:** 2500

**N.1.d Date of Last Certification:** November 04, 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): 85528

9/5/2018 12:00:00AM





# Public Utilities Commission

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

Please be advised that all applicant's contact information, including address and telephone number, will be made public and is not subject to confidential treatment. Additionally, any information pertaining to trade secrets contained within the application will be made public unless filed under seal with a motion for protective order, pursuant to Rule 4901-1-24 of the Ohio Administrative Code.

Case Number: 19-1221-EL-REN

Facility Address: 8383 Vienna Road  
Montrose, MI 48457

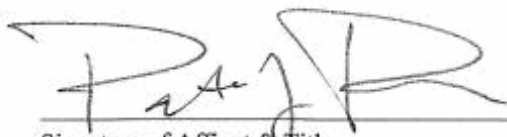
Name of person making this affidavit: Pat Devon

State of MI

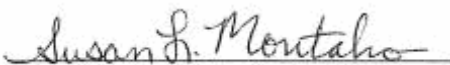
County of Ingham

The undersigned, being duly sworn according to law, deposes and says that:

1. I am authorized to and do hereby make this affidavit on behalf of the Applicant,
2. All facts and statements made in the application for certification, including all attachments and supplemental information or filings, are true and complete to the best of my knowledge, information, and belief,
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.

  
\_\_\_\_\_, Energy Analyst  
Signature of Affiant & Title

Sworn and subscribed before me this 17<sup>th</sup> day of June, 2019 Month/Year

  
\_\_\_\_\_  
Notary

My commission expires on 10/20/2023

SUSAN L. MONTALVO  
NOTARY PUBLIC - STATE OF MICHIGAN  
COUNTY OF EATON  
My Commission Expires October 20, 2023  
Acting in the County of Eaton

**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

**This foregoing document was electronically filed with the Public Utilities**

**Commission of Ohio Docketing Information System on**

**6/19/2019 1:03:03 PM**

**in**

**Case No(s). 19-1221-EL-REN**

Summary: Application Brent Run Application for OH Eligible Renewable Generating Facility electronically filed by Ryan Cook on behalf of Cook, Ryan Mr. and Energy Developments, Inc