# **Ohio** Public Utilities Commission

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

#### Case Number: 14-1122-EL-REN

#### A. Generating Facility

Name of Renewable Generating Facility: Vogelbaum, Michael Residence The name specified will appear on the facility's certificate of eligibility issued by the Public Utilities Commission of Ohio.

Facility Location Street Address: 40 N Strawberry Ln City: Chagrin Falls State: OH County: Geauga Zip Code: 44022

 Facility Latitude and Longitude

 Latitude: 41.450728
 Longitude: -81.441761

 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:

#### **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: Michael Vogelbaum Legal Name of Facility Owner Representative: Michael Vogelbaum Title: Owner Organization: Street Address: 40 N Strawberry Lane City: Geauga State: OH Zip Code: 44022 Phone: (216) 312-5286 Fax: Email Address: mvogelbaum@gmail.com Web Site Address (if applicable):

# 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: Michael Vogelbaum Title: Owner Organization: Street Address: 40 N Strawberry Lane City: Geauga State: OH Zip Code: 44022 Phone: (216) 312-5286 Fax: Email Address: mvogelbaum@gmail.com Web Site Address (if applicable):

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

Name of Generation Facility Operating Company: Vogelbaum, Michael Residence Legal Name of Contact Person: Michael Vogelbaum Title: Owner Organization: Street Address: 40 N Strawberry Lane City: Geauga State: OH Zip Code: 44022 Phone: (216) 312-5286 Fax: Email Address: mvogelbaum@gmail.com Web Site Address (if applicable):

#### E. Regulatory/Emergency Contact

Legal Name of Contact Person: Kenita Williams Title: SREC Administrator Organization: Astrum Solar Street Address: 8955 Henkels Lane Suite #508 City: Annapolis Junction State: MD Zip Code: 20701 Phone: 410-353-4485 Fax: Email Address: SRECAdmin@astrumsolar.com Web Site Address (if applicable):

#### 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 (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, PLASE 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.

This system is a roof-mounted, grid-tied photovoltaic solar system. It consists of 66 Suniva 260 OPT260-60-4-1B0 panels and 66 Enphase Microinverters.

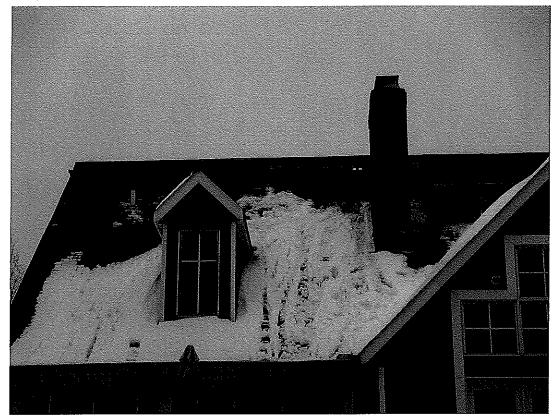
### G.2. Please include a detailed description of how the output of the facility is going to be measured and verified, including the configuration of the meter(s) and the meter type(s).

This system was installed with a Hialeah Utility Grade Meter made by Landis & Gyr. Monitoring will also take place with the Enlighten Enphase system.

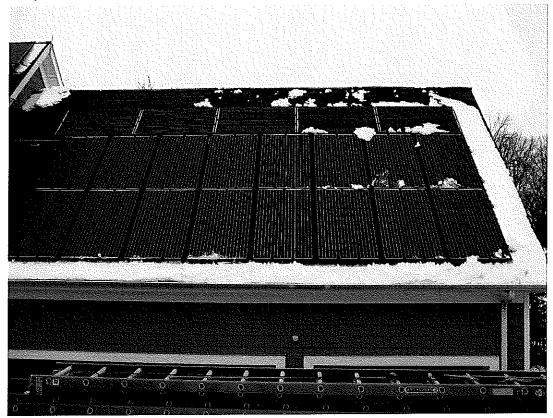
G.3. Please submit digital photographs that depict an accurate characterization of the renewable generating facility. Please indicate the date(s) the photographs were taken. For existing facilities, these photographs must be submitted for your application to be reviewed. For proposed facilities or those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



January 31, 2014



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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:** Roof Description:

G.4b Total number of Modules: 66

G.4.1 PV Modules
For each PV module, provide the following information:
G.4.1.a Manufacturer: Suniva
G.4.1.b Model and Rating: OPT260-60-4-1B0

#### 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: <u>1/31/14</u>

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): 17.16 (megawatts (MW): 0.01716)

**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:

Unit In-Service	Unit Nameplate	Projected Gross	Expected Annual	Number of		
Date	Capacity (MW)	Annual Generation	Capacity Factor %	Generating Units		
1/31/14	0.01716	0.15804	0.1	1		
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: No

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: (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? No

#### 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? <u>No</u>

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

	<u>Name of State</u>	<u>State Certification</u> <u>Agency</u>	<u>State Certification</u> <u>Number</u>	<u>Certification Date</u> <u>Issued</u>			
M. Type of Generating Facility							
Please check all of the following that apply to the facility:							
No	Utility Generating Facility:						
<u>No</u>	Investor Owned Utility						
No	Rural Electric Cooperative						
<u>No</u>	Municipal System						
<u>No</u>	Electric Services Company (competitive retail electric service provider certified by the PUCO)						
Yes	Distributed Generation with a net metering and interconnection agreement with a utility. Identify the Utility: <u>Cleveland Electric Illuminating Company</u>						
<u>No</u>	Distributed Generation with both on-site use and wholesale sales. Identify the Utility:						
<u>No</u>	Distributed Generation, inter Identify the Utility:	connected without net mete	ering.				

#### **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 ± 2% )

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

 N.1.a Manufacturer:
 Landis & Gyr

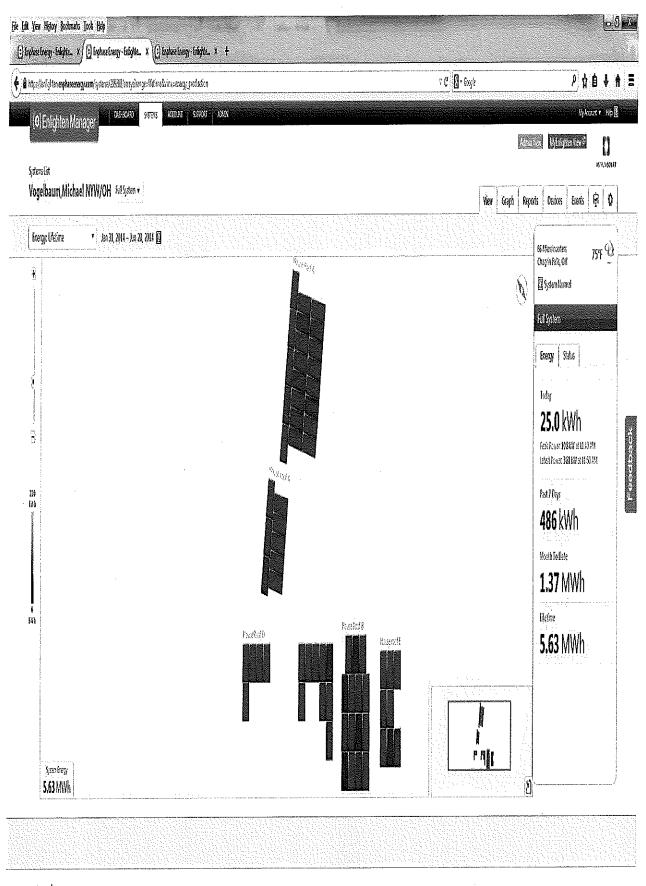
N.1.b Serial Number: 39 926 870 N.1.c Type: Hialeah N.1.d Date of Last Certification: October 10, 2013

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): 0

#### 1/31/2014 12:00:00AM





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# Ohio Public Utilities Commission

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

Please be advised that all applicant's confact information, including address and felephone number, will be made mublic 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, parsuant to Rule, 4901-1-24 of the Ohio Administrative Code.

Case Number: 14-1122-EL-REN

Facility Name: Vogelbaum, Michael Residence

Name of person making this affidavit: Kenita Williams

State of Maryland County of Howard

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 tilings, 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.

Signature of Afriant & Title

My commission expires on

SREC Administrator

\_ day of <u>AuguST</u>, 2014 Month/Year Sworn and subscribed before me this \_\_\_\_\_

ARMANI SHAKARI EARLAND Hotary Public

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

8/4/2014 3:00:59 PM

in

Case No(s). 14-1122-EL-REN

Summary: Application This is the application for certification of Michael Vogelbaum's photovoltaic installation as a renewable energy resource in the state of Ohio electronically filed by Ms. Kenita Williams on behalf of Astrum Solar and Michael Vogelbaum