

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

Case No.: _10_-_0720_-EL-REN

A. Name of Renewable Generating Facility: Dull Homestead Inc.

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

Facility Location

Street Address: 10404 National Road

City: Brookville State: OH Zip Code: 45309

Facility Latitude and Longitude

Latitude: 39.836 Longitude: -84.3

There are internet mapping tools available to determine your 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. Name of the Facility Owner: Dull Homestead Inc. Ralph Dull

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 Contact Person (First Name, MI, Last Name): Ralph V. Dull

Title: Owner

Organization: Dull Homestead Inc. Street Address: 10404 National Road

City: Brookville State: OH Zip Code: 45309

Country: Montgomery

Phone: 937-832-6365 Fax: Email Address: christine@dull.com

Web Site Address (if applicable):

C. Name under which Facility Owner will do business in Ohio: Dull Homestead Inc.

Legal Name of Contact Person (First Name, MI, Last Name): Ralph V. Dull

Title: Owner

Organization: Dull Homestead Inc. Street Address: 10404 National Road

City: Brookville State: OH Zip Code: 45309

Country: Montgomery

Phone: 937-832-6365 Fax: N/A Email Address: christine@dull.com

Web Site Address (if applicable):

D. Name of Generation Facility Operating Company: Dull Homestead Inc.

Legal Name of Contact Person (First Name, MI, Last Name): Ralph V. Dull

Title: Owner

Organization: Dull Homestead Inc. Street Address: 10404 National Road

City: Brookville State: OH Zip Code: 45309

Country: Montgomery

Phone: 937-832-6365 Fax: Email Address: christine@dull.com

Web Site Address (if applicable):

E. Contact person for regulatory or emergency matters

Legal Name of Contact Person (First Name, MI, Last Name): Ralph V. Dull

Title: Owner

Organization: Dull Homestead Inc. Street Address: 10404 National Road

City: Brookville State: OH Zip Code: 45309

Country: Montgomery

Phone: 937-832-6365 Fax: Email Address: christine@dull.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 your facility's location:

- X The facility is located in Ohio.
- The facility is located in a state geographically contiguous to Ohio (Indiana, Kentucky, Michigan, Pennsylvania, or West Virginia).
- __ 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 study by one of the regional transmission organizations (RTO) operating in Ohio, either PJM or Midwest ISO, demonstrating that the power from your facility is physically deliverable into the state of Ohio. The study may be conducted by someone other than the RTO provided that the RTO approves the study. This study must be appended to your application as an exhibit.

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 solar generating system is a grid-tied 22.5KWatt Solar PV array and supporting equipment including a quantity of 105 Sanyo Model 215 watt panels, 3 combiner boxes, 3 Sunny Boy Model 7000 inverters, AC and DC breakers, utility meter and Sunny Win Box for monitoring. Array is arranged in 3 sections each with 5 columns of 7 panels in one string which are connected in a combiner box and then wired to 1 of 3 Inverters. Inverter outputs go through a breaker and terminated in the building's 200Amp distribution panel.

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).

Outputs of each of the three 7000 watt Sunnyboy UL 1741/IEEE 1547 inverters are input into 3 AC disconnects (DU222RB 60 A) and then to a utility grade meter which is then connected to the building's distribution panel. The utility grade meter is UL listed and CEC approved, and displays cumulated KWh energy produced. The utility meter is a Schlumberger with the following specifications: Analog, 240 volt, 2S form, 200 Class, J5S Type, 3 Wire.

In addition to the utility grade meter the package includes a SMA Sunny WebBox which is a useful tool for monitoring the performance of the system and a method for service notifications.

It provides:

- Recording yield
- Remote diagnosis
- Automatic data transfer at chosen intervals
- Data storage and display via Ethernet
- via Sunny Portal provides access from any Web browser

G.3. Please attach 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.

INSERT PHOTOGRAPH(S)

Date photograph taken: March 24th 2010



Final day of panel installation - March 4th. 105 panels





Last Panel to go in.



Viewing one of the Sunny Boy Inverters



Utility room showing the 3 inverters, main AC panel and the Power Meter for just the solar array. The three inputs are from the 3 inverters.

The Applicant is applying for certification in Ohio based on the following qualified resource or technology (Sec. 4928.01 O.R.C.):

G.4 X SOLAR PHOTOVOLTAIC

Total PV Capacity (DC): 22.5 KWatts Total PV Capacity (AC): 21.8 KWatts

Expected Capacity Factor: 14

Capacity factor is the ratio of the energy produced to the maximum possible at full power, over a given time period. Capacity factor may be calculated using this formula:

Projected annual generation (kWh or MWh) divided by [the nameplate capacity (in kW or MW) times 8760]

Anticipated Annual output in kWh/yr: 27,000 kWh/YR

Location of the PV array: <u>X</u> Roof <u>Ground</u> Other # of Modules and/or size of the array: 105 Sanyo 215 watt panels

G.4a PV Modules

For each PV module, provide the following information:

Manufacturer: Sanyo

Model and Rating: HIT Power 215N panels - 215 watts

G.5 SOLAR THERMAL (FOR ELECTRIC GENERATION) N/A

G.6 _ WIND N/A

Total Nameplate Capacity (kilowatts AC): or kW DC:

Expected Capacity Factor:

Anticipated Annual Output in kWh/yr or MWh/yr:

of Generators:

G.6a Wind Generators

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):

that is	HYDROELECTRIC ("hydroelectric facility" means a hydroelectric generating facility slocated at a dam on a river, or on any water discharged to a river, that is within or ring this state or within or bordering an adjoining state (Sec. 4928.01(35) O.R.C.)
	Check each of the following to verify that your 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 your facility currently certified by the Low-Impact Hydro Institute	?
Yes	
No	
G.8 GEOTHERMAL N/A	

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.)

Identify all fuel types used by the facility and respective proportions (show by the percent of heat input): N/A

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

Identify the fuel type used by the facility: N/A

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

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

G.10b Please attach the formula for computing the proportions of output per fuel type by MWh or kWh generated.

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: N/A

G.12 _ STORAGE FACILITY N/A

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; (month/day/year):
X has a placed-in-service date on or after January 1, 1998; (month/day/year): March 4, 2010
has been modified or retrofitted on or after January 1, 1998; (month/day/year):
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 (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.
X No
Yes
Has the mercantile customer facility owner committed to integrate the resource under the provisions of Rule 4901:1-39-08 O.A.C?
No
Yes
If yes, please attach a copy of your approved application as an exhibit to this filing.

I. Facility Information

The nameplate capacity of the entire facility in megawatts (MW): .0225 MW

If applicable, what is the expected heat rate of resource used per kWh of net generation: BTU/kWh - N/A

Number of Generating Units: 1 array of 105 solar panels

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

In-Service date of each unit	The nameplate capacity of each unit	Projected Annual Generation (MWh)	Expected Annual Capacity Factor %
each unit	in megawatts (MW)	Generation (WWII)	Capacity Pactor 70
March 4, 2010	.0225 MW	27,000 KW	80%

(To expand the number of rows if more units need to be reported, place your cursor in the bottom right cell and hit tab).

J. Regional Transmission Organization Information
In which Regional Transmission Organization area is your facility located:
X Within Geographic Area of PJM Interconnection, L.L.C.
Within Geographic Area of Midwest ISO
Other (specify):
K. Attribute Tracking System Information
Are you currently registered with an attribute tracking system: YesX_ 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):
X 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 provide this number to the PUCO within 15 days of your 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?
Yes
X No

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

Name of State	State Certification Agency	State Certification Number	Date Issued
	<u> </u>		

(To expand the number of rows if more units need to be reported, place your cursor in the bottom right cell and hit tab).

M. Type of Generating Facility

Please check all of the following that apply to your facility:		
	Utility Generating Facility:	
	Investor Owned Utility	
	Rural Electric Cooperative	
	Municipal System	
_	Electric Services Company (competitive retail electric service provider certified by the PUCO)	
<u>X</u>	Distributed Generation with a net metering and interconnection agreement with a utility. Identify the utility: Dayton Power and Light	
	Distributed Generation with both on-site use and wholesale sales. Identify the utility with which the facility is interconnected:	
	Distributed Generation, interconnected without net metering. Identify the utility with which the facility is interconnected:	

Note: if the facility does not yet have an interconnection agreement with a utility or transmission system operator, please note here the status of the application for such an agreement:

We do have interconnect agreement

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.

The meter(s) that are measuri	ng output from the facility are:
Inverter Meter(s)	
_X Utility Grade Meter(s)	

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

Manufacturer: Schlumberger Serial Number: 10040190

Type: J5S

Date of Last Certification: 10/25/2009

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

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

Meter was just installed - reading 00010 KWh

Date photograph taken: March 1, 2010

INSERT PHOTOGRAPH(S)





O. Start date for reporting generation data to an attribute tracking system

March 4, 2010 - Start date

In the Commission's June 17, 2009 Entry on Rehearing in Case No. 08-888-EL-ORD, the Commission found it to be appropriate to recognize the creation of RECs back to July 31, 2008, when 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 (page 34). If the facility is not registered with and reporting to an attribute tracking system please provide a methodology and documentation which will support the specific generation output that would be reported to the attribute tracking system for the period from the placed-in-service date of the facility to the date the facility is scheduled to be certified, which is usually 61 days from the filing date of the application. The documentation may include dated photographs of the inverter and utility grade meters, written documentation of meter and inverter readings and measures, and entries of meter readings in a spreadsheet.

INSERT PHOTOGRAPH(S) OR DOCUMENTATION

Please state the specific start date that will be used to report generation output to the attribute tracking system, either the placed-in-service date or other:

March 4, 2010

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 (page 34).

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

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: April 6, 2010

Ohio | Public Utilities Commission

Case No.: 10 - 0720-EL-REN **AFFIDAVIT** State of OHIO : Brookville____ss. County of __Montgomery___: Ralph Dull_____, Affiant, being duly sworn/affirmed according to law, deposes and says that: 1. I am the duly authorized representative of Dull Homestead Inc. 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. Calph Mull fres regreture of Affiant & Title Sworn and subscribed before me this 25th day of May, 2010 Month/Year Jessica C. Sieves, Notary Public Print Name and Title Signature of official administering oath

My commission expires on

IESSICA C. SIEVERS, Notary Public In and for the State of Ohio My Commission Expires Nov. 30, 2013 This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

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in

Case No(s). 10-0720-EL-REN

Summary: Application Application for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility - Dull Homestead Inc. electronically filed by Mr. Wendell J Ott on behalf of Dull Homestead Inc.