



Case No.: 10-1233-EL-REN

A. Name of Renewable Generating Facility: EKPC Green Valley LFGTE

Facility Location

Street Address: 517 Addington Drive

City: Ashland State: KY Zip Code: 41102

Facility Latitude and Longitude

Latitude: N 38.39662

Longitude: W -82.80860

EIA-860 Plant Name: Green Valley LFGTE

EIA Plant Code: 5580 56278

B. Legal Name of the Facility Owner: East Kentucky Power Cooperative, Inc.

Legal Name of Facility Owner Representative (First Name, MI, Last Name): Jeffrey M. Brandt

Title: Manager – Alternative and Renewable Fuels

Organization: East Kentucky Power Cooperative, Inc.

Street Address: 4775 Lexington Road

City: Winchester State: KY Zip Code: 40391

Country: USA

Phone: 859-744-4812 Fax: 859-744-6008 Email Address: jeff.brandt@ekpc.coop

Web Site Address (if applicable): www.ekpc.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): Same as above

Title:

Organization:

Street Address:

City: State: Zip Code:

Phone: Fax: Email Address:

Web Site Address (if applicable):

D. Name of Generation Facility Operating Company:

Legal Name of Contact Person (First Name, MI, Last Name): Same as above

Title:

Organization:

Street Address:

City: State: Zip Code:

Phone: Fax: Email Address:
Web Site Address (if applicable):

E. Contact person for regulatory or emergency matters

Legal Name of Contact Person (First Name, MI, Last Name): Same as above

Title:

Organization:

Street Address:

City: State: Zip Code:

Phone: Fax: Email Address:

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:

☐ 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: KY

G. Certification Criteria 2: Qualified 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.

Landfill Gas to Energy Internal Combustion Engine/Generator

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).

Power Measurement (PM) 7330 Utility Grade Meter measuring total net generation of the facility.

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.

Date photograph taken: August 23, 2010

INSERT PHOTOGRAPH(S)



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

G.4 __ SOLAR PHOTOVOLTAIC

Total PV Capacity (DC):

Total PV Capacity (AC):
Expected Capacity Factor:
Anticipated annual output in kWh/yr:
Location of the PV array: ☐ Roof ☐ Ground ☐ Other
Total number of Modules and/or size of the array:

G.4a PV Modules

For each PV module, provide the following information:

Manufacturer:
Model and Rating:

G.5 ☐ SOLAR THERMAL (FOR ELECTRIC GENERATION)

G.6 ☐ WIND

Total Nameplate Capacity (kW AC): or kW DC:
Expected Capacity Factor:
Anticipated Annual Output in kWh/yr or MWh/yr:
Total Number of Generators:

G.6a Wind Generators

Manufacturer:
Model Name and Number:
Generator Nameplate Capacity (kW AC):
Wind Hub Height (ft):
Wind Rotor Diameter (ft):

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?

☐ Yes

☐ No

G.8 __ GEOTHERMAL

G.9__ SOLID WASTE (as defined in Section 3734.01, O.R.C.), 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.)

Describe the content (fully characterize the fuel material) and source of solid waste:

Is the facility co-firing more than one fuel type?

☐ Yes

☐ No

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

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

What is the expected heat content for each of the fuels used by the plant?

What is the projected annual generation from each fuel type?

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

Identify the fuel type used by the facility: Landfill Gas (Methane)

Describe the content (fully characterize the fuel material) and source of solid waste:

Landfill Gas (~ 50% Methane)

Is the facility co-firing more than one fuel type?

 Yes

 X No

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

Landfill Gas 100%

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

Landfill Gas 100%

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

~ 500 Btu/scf

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

15,000 MWh from Landfill Gas

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 (show by the percent of heat input):

G.12 __ STORAGE FACILITY

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):

Units 1-3: 09/09/2003

__ 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.

__ 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): 2.4 MW

If applicable, what is the expected net heat rate of the facility: 9100 BTU/kWh

Number of Generating Units: 3

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

In-Service date of each unit	The nameplate capacity of each unit in megawatts (MW)	Projected Annual Generation (MWh)	Expected Annual Capacity Factor %
09/09/2003	0.800	5,000	70%
09/09/2003	0.800	5,000	70%
09/09/2003	0.800	5,000	70%

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): SERC

K. Attribute Tracking System Information

Are you currently registered with an attribute tracking system: ☐ Yes ☒ 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*):

☒ GATS (Generation Attribute Tracking System)

☐ M-RETS (Midwest Renewable Energy Tracking System)

☐ Other (specify):

K.1 Enter the generation ID number the facility has been assigned by 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

☒ No

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

Name of State	State Certification Agency	State Certification Number	Date Issued

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 with which the facility is interconnected:

- ___ Distributed Generation, interconnected without net metering.
Identify the utility with which the facility is interconnected:
-

N. Meter Specifications

Metering Requirements

The meter(s) that are measuring 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: Power Measurement (PM)

Serial Number: 4079

Type: 7330

Date of Last Certification: 03/10/2009

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): 7385604.00 kWh

Date photograph taken: 08/23/2010

INSERT PHOTOGRAPH(S)



O. Start date from which the facility may begin reporting generation towards the creation of Renewable Energy Credits (RECs)

The start date from which an attribute tracking system will begin to count generation data toward the creation of renewable energy credits will be the date of certificate issuance in the state of Ohio, 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.

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:

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:

07/31/2008

INSERT DOCUMENTATION

EKPC Production Management Reporting System Green Valley Generation Report

Year	Month	Gross Generation	Station Service	Net Generation	Hrs In- Service	Hrs Stand- by	Hrs Off Scheduled	Hrs Off Forced
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2003	9	148,111	3,694	144,417			
	10	808,013	19,933	788,080			
	11	1,663,322	45,675	1,617,647			
	12	1,840,342	47,493	1,792,849			
2004	1	1,576,721	60,435	1,516,286	1,897.82	81.95	252.23
	2	1,650,267	96,918	1,553,349	2,036.97	12.27	38.77
	3	1,092,589	68,503	1,024,086	1,355.87		876.13
	4	1,718,244	98,483	1,619,761	2,073.70	9.80	76.50
	5	1,103,075	77,728	1,025,347	1,326.48	6.62	898.90
	6	1,237,922	99,911	1,138,011	1,489.65	23.93	646.42
	7	1,238,224	69,026	1,169,198	1,492.93	1.05	738.02
	8	1,322,055	93,941	1,228,114	1,630.72	10.23	591.05
	9	1,580,994	104,665	1,476,329	2,129.90	29.50	0.60
	10	1,542,657	100,399	1,442,258	2,217.52	5.75	8.73
	11	1,197,870	79,346	1,118,524	1,613.57	411.23	135.20
	12	1,484,396	99,992	1,384,404	2,169.30	58.43	4.27
2005	1	1,635,874	101,371	1,534,503	2,200.63	2.88	28.48
	2	1,489,466	88,620	1,400,846	1,958.92	12.65	44.43
	3	1,487,397	93,028	1,394,369	2,042.78	4.37	184.85
	4	1,392,468	91,034	1,301,434	1,938.62	7.08	214.30
	5	1,279,256	88,184	1,191,072	1,640.00	13.93	578.07
	6	1,191,522	86,295	1,105,227	1,474.40		685.60
	7	1,236,912	94,740	1,142,172	1,537.35		694.65
	8	1,165,097	94,306	1,070,791	1,410.55		821.45
	9	1,232,435	96,554	1,135,881	1,594.25		565.75
	10	1,350,649	95,864	1,254,785	1,930.83		301.17
	11	1,126,491	88,161	1,038,330	1,689.23	12.95	457.82
	12	1,229,674	97,335	1,132,339	1,489.15		742.85
2006	1	1,013,441	91,089	922,352	1,258.47		973.53
	2	1,312,212	89,662	1,222,550	1,857.30	44.17	114.53
	3	1,594,075	87,781	1,506,294	1,900.50	13.48	318.02
	4	1,770,603	91,128	1,679,475	2,102.13	2.95	54.92
	5	1,620,946	93,613	1,527,333	2,041.28	2.78	187.93
	6	1,458,799	93,865	1,364,934	1,877.63	2.27	280.10
	7	1,734,024	104,513	1,629,511	2,179.10	0.37	52.53
	8	1,560,269	104,030	1,456,239	2,143.10	5.50	83.40
	9	1,488,983	94,010	1,394,973	2,017.95	2.22	139.83
	10	1,668,760	92,965	1,575,795	2,088.47	6.12	137.42
	11	1,727,945	91,280	1,636,665	2,101.70	7.50	50.80
	12	1,696,100	95,790	1,600,310	2,200.68	7.82	23.50
2007	1	1,734,454	100,872	1,633,582	2,142.70	40.08	49.22
	2	1,618,465	95,336	1,523,129	1,979.88	5.90	30.22
	3	1,764,164	90,828	1,673,336	2,214.83	10.37	6.80
	4	1,608,658	87,581	1,521,077	2,150.23	7.65	2.12
	5	1,318,086	91,077	1,227,009	1,986.37	10.75	234.88
	6	1,141,552	85,525	1,056,027	1,428.38		731.62
	7	1,137,354	86,044	1,051,310	1,490.55		741.45
	8	1,114,848	90,969	1,023,879	1,463.65	6.98	761.37
	9	1,043,274	85,611	957,663	1,430.72	0.45	728.83
	10	1,027,785	86,248	941,537	1,481.60	3.83	746.57

2008	11	1,087,598	85,490	1,002,108	1,454.35		21.53	684.12
	12	1,347,468	90,539	1,256,929	1,761.62		12.82	457.57
	1	1,734,454	100,872	1,633,582	2,142.70		40.08	49.22
	2	1,779,419	84,346	1,695,073	2,076.48		1.67	9.85
	3	1,873,212	88,061	1,785,151	2,176.47		5.13	50.40
	4	1,805,371	86,367	1,719,004	2,136.53		13.42	10.05
	5	1,602,932	89,366	1,513,566	2,016.68	4.25	4.27	206.80
	6	1,478,857	91,347	1,387,510	1,870.00	283.48	1.00	5.52
	7	1,239,445	89,124	1,150,321	1,458.98	750.58	5.17	17.27
	8	1,129,856	86,735	1,043,121	1,388.48	810.27		33.25
	9	1,181,788	87,799	1,093,989	1,426.83	730.20		2.97
	10	1,200,845	89,474	1,111,371	1,488.82	743.18		
2009	11	1,181,837	86,296	1,095,541	1,422.57	737.00		0.43
	12	1,492,821	98,206	1,394,615	1,916.20	315.80		
	1	1,553,632	97,466	1,456,166	2,062.82	148.18	1.17	19.83
	2	1,356,687	85,289	1,271,398	1,668.78	310.50		36.72
	3	1,684,802	91,615	1,593,187	2,227.08		4.92	
	4	1,458,132	82,768	1,375,364	1,951.50			208.50
	5	1,442,371	88,983	1,353,388	2,021.03	112.43	0.42	98.12
	6	1,452,763	86,792	1,365,971	2,049.30	17.17	12.08	81.45
	7	1,249,800	93,364	1,156,436	1,749.05	419.78	6.17	57.00
	8	1,206,255	96,584	1,109,671	1,509.08	719.67	1.75	1.50
	9	1,099,759	91,122	1,008,637	1,427.60	671.50		60.90
	10	1,194,607	94,145	1,100,462	1,455.13	744.00	12.83	20.03
2010	11	1,165,786	91,121	1,074,665	1,451.43	648.45	6.83	53.28
	12	1,265,772	96,929	1,168,843	1,460.17	771.83		
	1	1,293,924	97,981	1,195,943	1,598.37	614.67	2.00	16.97
	2	1,271,416	89,355	1,182,061	1,949.83	63.17		3.00
	3	1,168,365	95,980	1,072,385	1,945.23	70.45	186.47	29.85
	4	968,089	72,496	895,593	1,650.67	141.90		367.43
	5	1,045,392	87,133	958,259	1,377.30	701.68		153.02
	6	1,153,133	98,533	1,054,600	1,417.28	720.00	4.47	18.25

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? Yes X No

Version: July 1, 2010

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

8/25/2010 2:41:13 PM

in

Case No(s). 10-1233-EL-REN

Summary: Application EKPC Green Valley LFGTE Application electronically filed by Mr. Jeff Brandt on behalf of EAST KENTUCKY POWER COOPERATIVE INC and BRANDT, JEFF