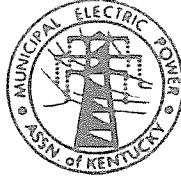


Municipal Electric Power



Association of Kentucky

Serving those who power Kentucky cities

Larry Musick, President
Franklin Electric Plant Board

Ron Herd, Vice President
Corbin City Utilities Commission

Doug Beckham, Secretary
Williamstown Utility Company

Jim Asbury, Executive Committee
Madisonville Municipal Utilities

Jeff Garner, Executive Committee
Henderson Municipal Power & Light

John Humphries, Executive Committee
Princeton Electric Plant Board

May 26, 2005

Ms. Beth O'Donnell
Executive Director
Kentucky Public Service Commission
211 Sower Boulevard
P.O. Box 615
Frankfort, Kentucky 40601

RECEIVED

MAY 26 2005

PUBLIC SERVICE
COMMISSION

Re: An Assessment of Kentucky's Electric Generation, Transmission,
and Distribution Needs—Administrative Case No. 2005-00090

Dear Ms. O'Donnell:

Enclosed please find the original and ten copies of the information requested by the Kentucky Public Service Commission pertaining to the above case.

If we may be of further assistance, please feel free to contact us.

Sincerely,

Elizabeth Marshall
Executive Director and
Counsel for the Municipal Electric Power
Association of Kentucky

110 A East Todd Street
Frankfort, Kentucky 40601
Phone (502) 223-2063 Fax (502) 875-9151

CERTIFICATE OF SERVICE AND FILING

Counsel certifies that an original and ten photocopies of the Assessment of Kentucky's Electric Generation, Transmission, and Distribution Needs were served and filed by hand delivery to Beth O'Donnell, Executive Director, Public Service Commission, 211 Sower Boulevard, Frankfort Kentucky 40601 this May 26, 2005; furthermore it was served by mailing a true and correct copy of the same, first class postage prepaid, to the following persons, properly addressed as follows:

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ELIZABETH MARSHALL

Municipal Electric Power Association of Kentucky Response to Statewide Electricity Assessment
 Kentucky Public Service Commission Administrative Case No. 2005-00090

1. Do you generate or purchase the electricity you supply to your customers? If you generate, provide the capacity and a brief description of your generating facilities. If you purchase, provide the name of your supplier and the term (length) of your existing purchase power contract.

Municipal Power Systems Supplied by TVA	
Benton Electric System	A full-requirements five year rolling contract with an indefinite term and a 5-year termination notice by either party.
Bowling Green Municipal Utilities	The full-requirements contract can be terminated by giving five years notice of intent to terminate. The contract has a ten year rolling evergreen provision renewing annually.
Glasgow Electric Plant Board	Notice has been given of the intent to terminate the wholesale contract with TVA on 12/01/08.
Fulton Electric System	A full-requirements five year rolling contract with an indefinite term and a 5-year termination notice by either party.
Hopkinsville Electric System	A full-requirements five year rolling contract with an indefinite term and a 5-year termination notice by either party.
Mayfield Electric & Water System	A full-requirements contract with a 5-year notification window.
Murray Electric System	A full-requirements five year rolling contract with an indefinite term and a 5-year termination notice by either party.
Paducah Power System	A full-requirements contract until December, 2009.
Princeton Electric Plant Board	Notice has been given of the intent to terminate the wholesale contract with TVA on 1/24/05.
Russellville Electric Plant Board	An all-requirements contract with a five-year notice for cancellation.

Municipal Power Systems Supplied by Kentucky Utilities/LGE	
Barbourville Utility Commission	The current contract has a 5 year cancellation notice by either party.
Bardstown Municipal Utilities	The contract has a 5 year cancellation notice by either party and has been in place under the current terms since 1988.
Berea Municipal Utilities	The contract has a 3 year cancellation notice provision and has been in place since 1973.
Corbin Utilities Commission	The contract is a five year perpetual contract, with the term expiring five years from the date of notice by either party.
Frankfort Electric and Water Plant Board	The contract is a standing contract that can be cancelled by either party with a five (5) year notice of cancellation. In addition, a small amount of electrical energy is purchased from the South Eastern Power Agency in the form of hydro-electric energy. The contract with SEPA is from December 31, 1996 to June 30, 2016.
Madisonville Municipal Utilities	The all-requirements contract has a 5 year cancellation notice by either party.
Nicholasville City Utilities	The all-requirements contract has a 5 year cancellation notice by either party.

Municipal Systems Supplied by American Electric Power	
Electric Plant Board of the City of Vanceburg	Current contract is with American Electric Power and continues through 12/31/2005.
Olive Hill Electric Company	Current contract with American Electric Power continues through 12/31/05.

Generating Utilities	
Henderson Municipal Power & Light	Two generating plants – 312 MW and 38 MW net rated capacity

2. What is your projected annual peak systems demand, stated in megawatts, for the years 2006 through 2025? How do you plan to meet this load? If the information is not available for this 20 year period, provide it for the number of years for which it is available.

Projected Annual Peak Demand in Megawatts for Years 2006 through 2025

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
Barbourville Utility Commission	25.3	26.1	27.0	27.9	28.8	29.8	30.8	31.8													
Bardstown Municipal Utilities	42.8	44.0	45.2	46.5	47.8	49.1	50.4	51.8	53.2	54.6	56.0	57.5	59.0	60.5	62.0						
Benton Electric System	17.3	17.6	17.8	18.1	18.3	18.6	18.8	19.0	19.3	19.6	19.9	20.3	20.6	20.9	21.3	21.7	22.0	22.3	22.7	22.7	
Berea Municipal Utilities	28.7	29.1	29.5	29.9	30.3	30.7	31.1	31.5	32.0	32.4	32.8	33.3	33.7	34.2	34.7						
Bowling Green Municipal Utilities	192.5	195.2	197.9	200.7	203.5	206.4	209.3	212.2	215.2	218.2	221.2	224.3	227.5	230.6	233.9	237.1	240.5	243.8	247.2	250.7	
Corbin Utilities Commission	19.7	20.0	20.3	20.6	20.9	21.2	21.6	21.9													
Frankfort Electric and Water Plant Board	159.7	165.8	168.7	171.7	174.5	174.5	177.4	180.3	183.1	185.9	188.8	191.6	194.5	197.3	200.1						
Fulton Electric System	22 MW all years																				
Glasgow Electric Plant Board	67	68	69	69.7	70.3	70.8	71.5	72.6	73.4	74.5	76	76	76	77.2	78	78	78	78	78.5	78.7	
Henderson Municipal Power & Light Board	125	126	126	128	129	130	131	132	133	135											
Hopkinsville Electric System																					
Madisonville Municipal Utilities	78	80.4	82.8	85.2	87.6	90.2	92.8	95.6	98.2	101.0	103.8	106.6	109.4	112.2	115.0						
Mayfield Electric & Water System																					
Murray Electric System																					
Nicholasville City Utilities																					
Paducah Power System																					
Princeton Electric Plant Board	26.8	28.0	29.3	30.6	32.0	33.5	35.0	36.6	38.3	40.1	41.9	43.9	46.0	48.1	50.4	52.8	55.4	58.1	60.9	62.0	
Russellville Electric Plant Board																					
Electric Plant Board of City of Vanceburg																					

3. How many residential, commercial, and industrial customers do you serve?

Number of Residential, Commercial and Industrial Customers Served

	Residential Customers	Commercial Customers	Industrial Customers
Barbourville Utility Commission	3,410	507	167
Bardstown Municipal Utilities	3,134	1,101	13
Benton Electric System	1,791	633	1
Berea Municipal Utilities	4,080	687	55
Bowling Green Municipal Utilities	21,289	4,277 commercial, industrial, other	
Corbin Utilities Commission	3,078	978	3
Frankfort Electric & Water Plant Board	16,816	2,835	280
Fulton Electric System	1,456	339	4
Glasgow Electric Plant Board	5,800	710	20
Henderson Municipal Power & Light	9,932 residential, 109 churches & schools	1,731 commercial & industrial	
Hopkinsville Electric System	11,100	1,800	300 (greater than 50 kw)
Madisonville Municipal Utilities	7,182	1,254	140
Mayfield Electric & Water System	4,843	929	2
Murray Electric System	6,058	1,436	4
Nicholasville City Utilities	5,600	367	6
Olive Hill Electric Company	1168	170	2
Paducah Power System	18,629	3,747	8
Princeton Electric Plant Board	3,248	621	72 (greater than 50 kw)
Russellville Electric Plant Board	3,262	663	78
Electric Plant Board, City of Vanceburg	2,395	308	2

4. Briefly describe your resource planning process.

Planning Process

Barbourville Utility Commission	Planning is based on historical load growth, proposed building projects and general business outlook to make peak load projections. Barbourville shares information with KU for planning purposes: peak load, number of customers, amount of kwh consumed by class, change in population, information on proposed customers and existing customers going out of business.
Bardstown Municipal Utilities	Planning is constructed on a 5-year planning window based on load flow analysis utilizing an electronic engineering system model.
Benton Electric System	Efficiency of operations is continuously reviewed. Resource planning is done on a case by case basis at each monthly board meeting. The full-requirements contract with TVA requires that TVA anticipate resources needed for Benton ES.
Berea Municipal Utilities	Berea uses a plan based on load levels, which was designed by R. W. Beck and Associates.
Bowling Green Municipal Utilities	Load, voltage, and power factor information are monitored and collected year round on an hourly basis using SCADA. That information, along with land use and area economic expansion information provides the basis for forecasts. A general correction for weather is also considered. Power supply and delivery point needs are forecasted annually and updated on a 20 year basis.
Corbin Utilities Commission	CUC provides future energy and peak demand estimates to KU for KU's resource planning for CUC.
Frankfort Electric and Water Plant Board	R. W. Beck prepares an annual load forecast report. In 1995, R. W. Beck prepared a 20 year transmission plan that has been implemented and is updated periodically.
Fulton Electric System	Power supply is provided by TVA, the current single supplier and is a full requirements contract.
Glasgow Electric Plant Board	Planning is based on historical growth patterns, projected growth of industrial customers, and general economic growth demographics, all of which are combined to arrive at future projected demand levels.

Henderson Municipal Power & Light	Resource planning utilizes historical load data and usage, application of expected residential load growth factors, coordination with existing industrial and commercial customers for anticipated load requirements, and coordination with Economic Development Council for potential new industry in service territory.
Hopkinsville Electric System	TVA coordinates the resource planning for the full requirements contract, conducted at least annually in a power supply planning meeting to discuss projected power needs the next 5,10 and 15 years. A recently formed power supply committee of the board of directors has been evaluating alternative power suppliers to insure the best future supply for our system. This includes requesting and evaluating indicative bids for future supply.
Madisonville Municipal Utilities	R. W. Beck assists in preparing and updating long range planning studies to identify capacity upgrades required to meet the forecasted load demands.
Mayfield Electric & Water System	The contract with TVA is a full requirements contract that is reviewed annually to meet resource needs.
Murray Electric System	Planning is based on historical growth patterns, projected growth of industrial customers, and general economic growth demographics, all of which are combined to arrive at future projected demand levels.
Nicholasville City Utilities	Resource planning is based on historical customer growth patterns by customer class, projected increases in usage per customer by customer class, and the remaining developable land within the city's service territory.
Olive Hill Electric Company	Resources are met through an all requirements contract.
Paducah Power System	Resource planning is ongoing. Each year a budget is developed and transmission, demand side, and distribution resource planning are developed. Generation is handled by TVA.
Princeton Electric Plant Board	Planning is constructed on a 5-year planning window based on load flow analysis utilizing R. W. Beck. Plans are reviewed annually.
Russellville Electric Plant Board	Planning is based on historical growth patterns, projected growth of industrial customers, and general economic growth demographics, all of which are combined to arrive at future projected demand levels. A consultant studies the system approximately every ten years and develops a work plan for the future.
Electric Plant Board, City of Vanceburg	Monthly loading data from substations and lines is used to calculate projected loading of the facilities, which is compared to the rated capacity of the facilities.

5. Do you own any transmission lines 69 kV or greater? If yes, do you anticipate any major upgrades or that you will add new transmission facilities in the next 5 years? Briefly describe any planned upgrades or additions.

Transmission Owned

		No plans for additions at this time.
Barbourville Utility Commission	No transmission greater than 69 kV.	
Bardstown Municipal Utilities	No transmission owned.	
Benton Electric System	No transmission greater than 69 kV.	
Berea Municipal Utilities	No transmission greater than 69 kV.	
Bowling Green Municipal Utilities	BGMU owns about 30 miles of 69 KV transmission lines operated as a sub transmission system supplying power from two 161/69 kV BGMU-owned delivery points to twelve 69/15 kV BGMU and customer owned substations. One mile of 161 KV line is also owned feeding one of the delivery points.	A third 161/69 KV delivery point and another 69/15 KV substation are planned to be in service within 18 to 24 months.
Corbin Utility Commission	No transmission greater than 69 kV.	
Frankfort Electric and Water Plant Board	FEWPB owns a 26 mile 69 kV transmission system. Kentucky Utilities has a substation (1.38 kv/69 kV) in East Frankfort that provides 69 kV to the FEWPB's system.	
Fulton Electric System	Five miles of 69 kV transmission.	No present plans for additions
Glasgow Electric Plant Board	No transmission greater than 69 kV.	In anticipation of alternative supplier of power in 2008, a new 20 mile 161 kV line will be constructed from a nearby LG&E 161 kV circuit to the Glasgow city gate.

Henderson Municipal Power & Light	36.2 miles of 69 kV and 22 miles of 161 kV.	No plans to upgrade at this time.
Hopkinsville Electric System	No transmission greater than 69 kV.	No planned upgrades to 69-kv loop
Madisonville Municipal Utilities	No transmission owned.	
Mayfield Electric & Water System	No transmission greater than 69 kV.	
Murray Electric System	No transmission greater than 69 kV.	No planned upgrades over the next 5 years
Nicholasville City Utilities	No transmission greater than 69 kV.	
Olive Hill Electric Company	No transmission greater than 69 kV.	
Paducah Power System	PPS presently has 2-161 kV feeds from TVA.	PPS anticipates building about 16 miles of 161 kV transmission routes to tap into the MISO transmission network.
Princeton Electric Plant Board	PEPB owns about 3 miles of 161-kV transmission facilities used to take service from TVA, operated and maintained by contractors.	Under plans to consider alternative wholesale energy providers, there are several alternative transmission arrangements under consideration.
Russellville Electric Plant Board	No transmission greater than 69 kV.	
Electric Plant Board of the City of Vanceburg	Vanceburg owns 1.5 miles of 138 kV and 20 miles of 69 kV.	No upgrades are planned within the next five years

6. Describe your right-of-way maintenance program. Include tree trimming widths and cycles, and other vegetation control practices.

Right-of-Way Maintenance Program

Barbourville Utility Commission	Tree trimming begins in November and ends the first of April, attending to primary lines each year and checking for dead or damaged trees. Preferred method is to round top the tree with 10' of clearance. Dogwoods and dwarf trees are offered to home owners to replace large trees near lines. Service drops to buildings are trimmed to avoid limbs breaking down the wire during an ice or snow storm.
Bardstown Municipal Utilities	Goal is to trim the entire system (roughly 90 miles of 12 and 4 kV distribution) every three years. Clearance on open-wire conductors is trimmed to a 10' minimum standard and more if the property owner concurs. If possible, trees directly under the line are removed if they meet sufficient repeated trimming frequency criterion (e.g., fast growing species).
Berea Municipal Utilities	Right-of-Way maintenance program consists of trimming and cutting of lines in the service area on a four-year cycle by contract labor, using the directional pruning method. Clearance width varies, but the goal is to clear a minimum of 10'.
Benton Electric System	Right of way program includes a 10' tree trimming width over a 3 to 4 year cycle. Vegetation control by spraying is performed in the substation area only. In residential areas where customers agree, trees are totally removed rather than trimmed.
Bowling Green Municipal Utilities	Standard right-of-way is 20' for primary distribution and 40' for 69 kV sub-transmission, using 3 to 4 contracted tree trimming crews annually. A five year cycle is used to maintain adequate clearing. No herbicides are currently in use.
Corbin Utilities Commission	CUC has a full time tree trimming crew that works year round. The crew consists of 1 tree trimmer, 2 laborers, 1 bucket truck, 1 chipper and 1 dump truck.
Frankfort Electric and Water Plant Board	The FEWPB employs Asplundh Tree Service for right-of-way maintenance. The trimming cycle is three years and chemicals are applied as needed. Rights-of-way vary in the city and county depending upon location (public or private property). Rights-of-way are cleared in the county and trimmed in the city. Depending upon the need, additional crews are employed.
Fulton Electric System	Right of way in non-residential areas is 100'. Trimming conducted every fall and winter, spraying in summer for small trees and mowing as needed.
Glasgow Electric Plant Board	The goal is to secure three year vegetation clearance from all distribution facilities on the network. One third of the system is cleared in this manner each year using aggressive lateral trimming techniques.
Henderson Municipal Power & Light	Substations are sprayed once each spring by an outside contractor. Transmission and 13.8 kV distribution lines are trimmed and/or sprayed as needed, usually on 3 year cycle. One to two 3-men contractor crew(s) work year-round, using both lateral and rounding programs. Standard ROW widths of 50-100' for transmission lines, and 10-20' for primary distribution lines.
Hopkinsville Electric System	Transmission lines are cut back to the ROW limits and trees posing danger removed to outside the limits. Distribution lines are trimmed back beyond 3-6' of the insulated conductor. A three person ROW crew covers the entire system each year and employs the lateral tree trimming. The "trade-a-tree" program is offered to customers.

Madisonville Municipal Utilities	<p>Goal is to trim the entire system (roughly 141 miles of 12 and 4kV distribution) every three years. Clearance on open-wire conductors is trimmed to a 10' minimum standard and more if the property owner concurs. If possible, trees directly under the line are removed if they meet sufficient repeated trimming frequency criterion (e.g., fast growing species). Some right of ways will be mowed and sprayed with selective herbicides. The "trade-a-tree" program is offered.</p> <p>Annual trimming and vegetation control is conducted. "Trade-a-tree" program is offered to customers.</p> <p>MES employs a three person ROW Contracting crew that covers the entire system each year. MES employs the lateral tree trimming program. MES promotes the "trade-a-tree" program. By aggressively removing maintenance trees from system, MES has reduced the necessary trimming time to keep system clear to six months of each year.</p> <p>ROW's are trimmed to 6' either side of the conductor and to 2' below the neutral. Substations are sprayed annually in the spring to prevent the growth of grass/weeds.</p> <p>Right of way program includes cutting trees back to a width of 10' on both sides. Trees that are on the customer's property are completely removed by the city or can be trimmed below the lines at the customer's expense.</p> <p>Right of way program is ongoing annually with the goal of a 10' clearance from the center line. No sprays are used. Complete system is addressed every 3 to 4 years. "Trade-a-tree" program is offered.</p> <p>All primary lines are trimmed on a two year cycle, using "rounding off," "topping" or "through cut" techniques as needed. "Trade-a-tree" program is offered and the homeowner is required to select a location where the tree will never require trimming for electrical line clearance. Vegetation management uses non-selective herbicides in controlled access areas such as substations and pole storage lots typically applied on an annual basis by a licensed applicator. Rights of way are bush-hogged or roughly mowed on a 1 to 3 year basis.</p> <p>The goal is to perform right-of-way maintenance of the system over a three-year period, with one-third being done each year. The majority of poles are located at the back edge of the public right-of-way, which limits the degree of trimming on the "private" side of the lines. The objective is to clear at least 10' from the center line. Guidelines of the National Arbor Foundation (lateral, side and V trimming as opposed to the "round-over" method) are followed, and are now generally accepted by customers. The "trade-a-tree" program is at the tree owner's option. No other means are used to control vegetation in the right-of-way.</p> <p>A 25' width is maintained on either side of the line for tree trimming as needed. Tree trimming is ongoing and performed every year. Transmission lines are sprayed on a five year cycle for vegetation control using helicopters in remote areas</p>
Mayfield Electric and Water System Murray Electric System	
Nicholasville City Utilities	
Olive Hill Electric Company	
Paducah Power System	
Princeton Electric Plant Board	
Russellville Electric Plant Board	
Electric Plant Board of the City of Vanceburg	