For All Counties Served
P.S.C. No. 31
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Canceling P.S.C. No. 30
Original Sheet No. 15

EAST KENTUCKY POWER COOPERATIVE, INC.

Section E

Availability

Available to all cooperative associations which are or shall be members of EKPC. The electric power and energy furnished hereunder shall be separately metered for each point of delivery.

Applicability

Applicable to all power usage at the load center not subject to the provisions of Section A, Section B, or Section C of this tariff.

Monthly Rate - Per Load Center

A cooperative association may select either Option 1 or Option 2 of this section of the tariff to apply to all load centers. The cooperative association must remain on a selected option for at least one (1) year and may change options, no more often than every twelve (12) months, after giving a minimum notice of two (2) months.

	Option 1	Option 2	
Demand Charge per kW of Billing Demand	$6.92	$5.22	
Energy Charge per kWh			
On-Peak kWh	$0.035406	$0.042470	(I)
Off-Peak kWh	$0.034904	$0.034904	(I)

DATE OF ISSUE August 7, 2007 DATE EFFECTIVE: Service rendered on and after August 1, 2007

ISSUED BY _____ TITLE President & Chief Executive Officer

Issued by authority of an Order of the Public Service Commission of Kentucky in
Case No. 2006-00508 Dated July 25, 2007

PUBLIC SERVICE COMMISSION
OF KENTUCKY
EFFECTIVE
8/1/2007
PURSUANT TO 807 KAR 5:011
SECTION 9 (1)
By _____
Executive Director

For All Counties Served
P.S.C. No. 31
Original Sheet No. 16
Canceling P.S.C. No. 30
Original Sheet No. 16

EAST KENTUCKY POWER COOPERATIVE, INC.

Section E (con't.)

On-peak and off-peak hours are provided below:

Months	On-Peak Hours - EST	Off-Peak Hours – EST
October through April	7:00 a.m. to 12:00 noon	12:00 noon to 5:00 p.m.
	5:00 p.m. to 10:00 p.m.	10:00 p.m. to 7:00 a.m.
May through September	10:00 a.m. to 10:00 p.m.	10:00 p.m. to 10:00 a.m.

Billing Demand

The billing demand (kilowatt demand) is based on EKPC's system peak demand (coincident peak) which is the highest average rate at which energy is used during any fifteen minute interval in the below listed hours for each month and adjusted for power factor as provided herein:

Months	Hours Applicable for Demand Billing – EST
October through April	7:00 a.m. to 12:00 noon
	5:00 p.m. to 10:00 p.m.
May through September	10:00 a.m. to 10:00 p.m.

Billing demand applicable to this section is equal to the load center's contribution to EKPC's system peak demand minus the actual demands of Section A, Section B, and Section C participants coincident with EKPC's system peak demand.

Billing Energy

Billing energy applicable to this section is equal to the total energy provided at the load center minus the actual energy provided to Section A, Section B, and Section C participants.

DATE OF ISSUE August 7, 2007 DATE EFFECTIVE: Service rendered on and after August 1, 2007

ISSUED BY _____ TITLE President & Chief Executive Officer

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PUBLIC SERVICE COMMISSION
OF KENTUCKY
8/1/2007
PURSUANT TO 807 KAR 5:011
SECTION 9 (1)
By _____
Executive Director

FORM FOR FILING RATE SCHEDULES

FOR ENTIRE TERRITORY SERVED
Community, Town or City

SALT RIVER ELECTRIC
Name of Issuing Corporation

P.S.C. No. 11

1st Original Sheet No. 43

Canceling P.S.C. No.

Original Sheet No.

CLASSIFICATION OF SERVICE

RESIDENTIAL MARKETING RATE SCHEDULE R-1

APPLICABLE

In all territory served by Salt River Electric.

AVAILABILITY OF SERVICE

This special marketing rate is available for specific marketing programs as approved by Salt River's Board of Directors. The electric power furnished under this marketing program shall be separately metered for each point of delivery and is applicable during the below listed off-peak hours. This rate is available to customers already receiving service under Schedule A-5 and A-5T, Farm and Home Service Rate. This marketing rate applies only to programs which are expressly approved by the Kentucky Public Service Commission to be offered under the Marketing Rate of East Kentucky Cooperative Wholesale power Rate Schedule A.

Months	Off-Peak Hours-EST
May through September	10:00 P.M. to 10:00 A.M.
October through April	12:00 P.M. to 5:00 P.M. 10:00 P.M. to 7:00 A.M.

TYPE OF SERVICE

Single phase, 60 Hertz, at available secondary voltage.

RATES

The energy rate for this program is:

All KWH	$.04032

PUBLIC SERVICE COMMISSION
OF KENTUCKY
EFFECTIVE
8/1/2007
PURSUANT TO 807 KAR 5:011
SECTION 9 (1)
By Executive Director

Date of Issue: July 30, 2007

Date Effective: August 1, 2007

Issued By Larry Hicks

Title

Issued by authority of an order of the Public Service Commission of Kentucky in Case No. 2006-00523 Dated: July 25, 2007.

FORM FOR FILING RATE SCHEDULES

FOR ENTIRE TERRITORY SERVED
Community, Town or City

SALT RIVER ELECTRIC
Name of Issuing Corporation

P.S.C. No. 11

1st Original Sheet No. 44

Canceling P.S.C. No.

Original Sheet No.

CLASSIFICATION OF SERVICE

RESIDENTIAL MARKETING RATE SCHEDULE R-1 (Cont.)

TERMS OF PAYMENT

The above rates are net. A 5% penalty will be assessed if a customer fails to pay a bill for service by the due date shown on the customers' bill.

FUEL ADJUSTMENT CLAUSE

The above rate may be increased or decreased by an amount per KWH equal to the fuel adjustment amount per KWH as billed by the Wholesale Power Supplier plus an allowance for line losses. The allowances for line losses will not exceed 10% and is based on a twelve month moving average of such losses.

PUBLIC SERVICE COMMISSION
OF KENTUCKY
EFFECTIVE
8/1/2007
PURSUANT TO 807 KAR 5:011
SECTION 9 (1)
By Executive Director

Date of Issue: July 30, 2007

Date Effective: August 1, 2007

Issued By
Larry Hicks

Issued by authority of an order of the Public Service Commission of Kentucky in Case No. 2006-00523 Dated: July 25, 2007.

EAST KENTUCKY POWER COOPERATIVE, INC.

PSC ADMINISTRATIVE CASE NO. 2007-00477

SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 1/04/08
REQUEST 32
RESPONSIBLE PERSON: **William A. Bosta**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 32. Provide an analysis for the last 3 years of Environmental Compliance Surcharge Activity (by year) – Detail of costs deferred for collection; customer collections under the surcharge; annual balances; etc.

Response 32. Please see the attached. Also, information pertaining to the first two years of the operation of the Environmental Surcharge is contained in Case No. 2007-00378. That case is under consideration by the Commission.

Environmental Surcharge

Components of Cost Recovery: June 2005 - November 2007 Expense Months

Expense Month	Revenue Req.	Return on Rate Base	Depreciation	Taxes & Insurance	O&M	Emission Allowances
Jun-05	$2,779,434	$930,928	$786,766	$43,059	$331,274	$687,407
Jul-05	$2,785,324	$923,927	$786,766	$43,059	$346,132	$685,440
Aug-05	$5,355,252	$960,141	$806,148	$43,059	$361,153	$3,184,751
Sep-05	$4,991,676	$957,197	$806,336	$43,076	$383,996	$2,801,071
Oct-05	$4,792,221	$953,668	$806,336	$43,076	$360,692	$2,628,449
Nov-05	$5,474,630	$957,577	$806,336	$43,076	$370,143	$3,297,499
Dec-05	$3,042,987	$950,254	$806,336	$43,076	$384,485	$858,837
Total	**$29,221,524**	**$6,633,692**	**$5,605,024**	**$301,481**	**$2,537,875**	**$14,143,454**
Jan-06	$4,175,384	$1,008,788	$806,336	$43,076	$375,996	$1,941,189
Feb-06	$4,613,945	$1,063,458	$806,336	$59,757	$386,788	$2,297,606
Mar-06	$4,782,295	$1,048,478	$806,336	$60,431	$414,305	$2,452,745
Apr-06	$4,705,099	$1,033,297	$806,336	$60,431	$409,340	$2,395,696
May-06	$5,147,636	$1,056,362	$806,336	$60,431	$410,162	$2,814,345
Jun-06	$5,473,854	$1,059,995	$806,336	$60,431	$428,359	$3,118,733
Jul-06	$6,509,759	$1,138,893	$806,616	$60,431	$485,642	$4,018,177
Aug-06	$6,630,954	$1,119,024	$806,616	$60,431	$524,472	$4,120,410
Sep-06	$5,931,038	$1,134,109	$806,616	$60,431	$586,677	$3,343,205
Oct-06	$5,241,591	$1,158,948	$806,616	$60,431	$623,457	$2,592,138
Nov-06	$4,987,859	$1,177,843	$589,408	$60,431	$679,072	$2,481,105
Dec-06	$4,338,415	$1,167,032	$589,408	$60,431	$704,497	$1,817,047
Total	**$62,537,829**	**$13,166,227**	**$9,243,296**	**$707,143**	**$6,028,767**	**$33,392,396**
Jan-07	$5,294,691	$1,145,563	$589,408	$60,431	$718,310	$2,780,979
Feb-07	$5,217,851	$1,130,211	$589,408	$60,431	$729,390	$2,708,411
Mar-07	$5,425,134	$1,113,828	$589,408	$51,216	$725,142	$2,945,540
Apr-07	$4,217,353	$1,103,263	$589,408	$51,216	$756,361	$1,717,105
May-07	$5,285,585	$1,099,776	$589,408	$51,216	$862,449	$2,682,736
Jun-07	$5,427,079	$1,091,306	$412,779	$51,216	$878,191	$2,993,587
Jul-07	$5,696,434	$1,078,004	$501,094	$51,216	$848,396	$3,217,724
Aug-07	$5,892,580	$1,059,469	$501,094	$51,216	$833,652	$3,447,149
Sep-07	$5,524,410	$1,052,723	$501,094	$51,216	$787,417	$3,131,959
Oct-07	$4,997,676	$1,044,100	$501,094	$51,216	$802,979	$2,598,286
Nov-07	$4,599,275	$1,036,170	$501,094	$51,216	$875,095	$2,135,700
Total	**$57,578,068**	**$11,954,413**	**$5,865,289**	**$581,806**	**$8,817,382**	**$30,359,176**

Year	Revenue Requirement* E(m)	Surcharge Revenues Billed
2005	$29,002,833	$27,217,411
2006	$62,234,072	$56,160,460
2007	$54,420,893	$60,275,745

* Different revenue requirement amounts than shown above as a result of the elimination of off-system sales.

EAST KENTUCKY POWER COOPERATIVE, INC.

PSC ADMINISTRATIVE CASE NO. 2007-00477

SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 1/04/08
REQUEST 33
RESPONSIBLE PERSON: **William A. Bosta**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 33. Based on the December 18 interview, it is our understanding that EKPC (or its member coops) does not currently use the DSM Surcharge mechanism to defer costs or collect revenues from its customers.

If this is incorrect, please provide an analysis for the last 3 years of DSM surcharge (as provided by 278.285) activity (by year) -- Detail of costs deferred (by program, if available) for collection; customer collections under the surcharge; annual balances; etc.

If the above statement is correct, has EKPC given consideration to implementation of the DSM Surcharge in the future? If so, when does it expect to do so?

Response 33. EKPC has not used a DSM surcharge to fund existing DSM programs. EKPC's DSM programs to date have been relatively small and a DSM surcharge was not warranted.

EKPC is considering implementation of a DSM surcharge to fund the next DSM program for which it seeks approval.

EAST KENTUCKY POWER COOPERATIVE, INC.

PSC ADMINISTRATIVE CASE NO. 2007-00477

SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 1/04/08
REQUEST 34
RESPONSIBLE PERSON: **William A. Bosta**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 34. Does EKPC (or its member coops) currently have a "Green Energy" tariff in Kentucky? If so, provide a summary of the program, including a copy of the tariff; the current number of customers on the tariff; the premium over standard service, etc. If not, will it be submitting such a tariff for approval in the near future? Please provide information, including a summary of the program; the status of this filing; and a draft tariff; if currently available. What is the expected premium of the current standard service offering?

Response 34. Attached is EKPC Wholesale tariff Section H, Wholesale Renewable Resource Power Service, which is our "green power" tariff. This schedule is made available at any load center to any member cooperative where a retail "Customer" contracts for renewable power service in 100 kWh blocks and where the retail "Customer" has contracted with the member cooperative to do so under a retail contract rider.

Fourteen of the sixteen member cooperatives offer the "green power" program. The retail premium is $2.75 per 100 kWh block.

As of November 30, 2007, there were 1,180 retail customers purchasing "green power" blocks of energy.

For All Counties Served
P.S.C. No. 31
Original Sheet No. 20
Canceling P.S.C. No. 30
Original Sheet No. 20

EAST KENTUCKY POWER COOPERATIVE, INC.

Section H

Wholesale Renewable Resource Power Service

Standard Rider

This Renewable Resource Power Service is a rider to Rate Sections A, B, C, and E. The purpose of this service is to provide Member Systems with a source of renewable resource generated power for resale to their Customers.

Applicable

In all territory served by EKPC.

Availability of Service

This service is contingent upon the available supply of energy generated from renewable resources which EKPC owns or controls, or such energy which EKPC has purchased from other wholesale suppliers.

This schedule shall be made available at any load center to any member cooperative where a retail "Customer" contracts for renewable resource power service in the following block amounts:

100 kWh

AND where retail "Customer" has contracted with the Member Cooperative Association to do so under a retail contract rider.

Eligibility

Any EKPC Member Cooperative Association that has completed and returned a "Pledge to Purchase Renewable Resource Power Service" application to EKPC will be eligible for this rider. This form will indicate the number of blocks that the Member Cooperative Association intends to purchase monthly as a firm purchase power commitment for a period of one year. All such Member Cooperative Associations will have executed an Agreement for the sale of renewable resource power with a retail consumer.

PUBLIC SERVICE COMMISSION OF KENTUCKY
EFFECTIVE
8/1/2007
PURSUANT TO 807 KAR 5:011 SECTION 9 (1)
BY: Executive Director

DATE OF ISSUE August 1, 2007 DATE EFFECTIVE: Service rendered on and after August 1, 2007

ISSUED BY _____ TITLE President & Chief E

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For All Counties Served
P.S.C. No. 31
Original Sheet No. 21
Canceling P.S.C. No. 30
Original Sheet No. 21

EAST KENTUCKY POWER COOPERATIVE, INC.

Section H (con't.)

Monthly Rate

The monthly rate for this service will be a renewable power premium, i.e. added charge, for all renewable power purchased by the participating Member Cooperative Association. The renewable rate premium per block is as follows:

100 kWh block	$2.375	per block ($0.02375 per kWh)

This power can be purchased only in the blocks and amounts listed above. These rates are in addition to the regular wholesale rate applicable to the Member Cooperative Association.

Billing and Minimum Charge:

Blocks of power sold under this tariff shall constitute the minimum amount of energy in kWh that the Member Cooperative Association may be billed for during a normal billing period.

Terms of Service and Payment:

This schedule shall be subject to all other terms of service and payment of the wholesale power tariff.

Fuel Adjustment Clause:

The fuel adjustment clause is not applicable to renewable resource power.

Special Terms:

When Member Cooperative Associations' contract for this type of power service, said Member Cooperative Associations will pay for all such power at the rates prescribed in this tariff for the complete contract period.

PUBLIC SERVICE COMMISSION
OF KENTUCKY
EFFECTIVE
8/1/2007
PURSUANT TO 807 KAR 5:011
SECTION 9 (1)

DATE OF ISSUE August 7, 2007 DATE EFFECTIVE: Service rendered on and after August 1, 2007

ISSUED BY _____ TITLE President & Chief Executive Officer

Issued by authority of an Order of the Public Service Commission of Ky
Case No. 2006-00508 Dated July 25, 2007

Executive Director

EAST KENTUCKY POWER COOPERATIVE, INC.

PSC ADMINISTRATIVE CASE NO. 2007-00477

SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 1/04/08

REQUEST 35

RESPONSIBLE PERSON: **James C. Lamb, Jr.**

COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 35. For EKPC (and its member coops), on a 3 year historic calendar year basis; by year (2004-2006):

Request. o Actual and weather adjusted sales by residential, commercial, industrial, other retail and wholesale. Provide a total.

Response. EKPC does not weather normalize by class, however, the tables below show actual retail sales by class, and actual and adjusted total requirements. EKPC does not weather adjust off system sales, however, actual off-system sales are reported below.

EKPC Recorded Annual Energy Sales (MWh) and Energy Requirements (MWh), 2004-2006

Year	Total Residential* (MWh)	Commercial (MWh)	Industrial (MWh)	Utility Use and Other** (MWh)	Total Retail Sales (MWh)	Office Use (MWh)	% Loss	EKPC Sales to Members (MWh)	EKPC Office Use (MWh)	Transmission Loss (%)	Total Requirements (MWh)
2004	6,374,557	1,597,842	3,032,312	7,498	11,012,209	8,289	4.5	11,540,687	9,106	2.7	11,865,797
2005	6,783,052	1,733,389	3,013,699	7,713	11,537,853	8,629	4.2	12,049,271	8,902	3.9	12,527,829
2006	6,581,661	1,777,897	3,057,184	8,236	11,424,978	8,952	3.9	11,892,304	7,567	3.6	12,331,272

Notes: * Residential Class consists of Residential, Seasonal and Public Buildings
** Utility Use and Other includes lighting.

Year	EKPC Total Requirements	
	Recorded MWh	Weather Adjusted MWh
2004	11,865,797	12,550,265
2005	12,527,829	12,772,769
2006	12,331,272	12,757,934

Total Off-System Sales

Year	MWh
2004	53,546
2005	144,197
2006	77,010

Request. o Actual and weather adjusted retail peak demand by residential, commercial, industrial, other retail and wholesale. Provide a total.

Response. The table below shows actual and weather adjusted seasonal peak demands for the total system peak demand. EKPC does not weather normalize by class. There is no peak demand for off-system sales.

Seasonal Peaks, Actual and Adjusted

Year	Season	Actual Peak	Adjusted Peak
		MW	MW
2004	Winter	2,610	2,562
	Summer	2,052	2,179
2005	Winter	2,719	2,863
	Summer	2,220	2,198
2006	Winter	2,735	2,760
	Summer	2,332	2,333

Request. o Year-end customers by residential, commercial, industrial, other retail and wholesale. Provide a total.

Response. EKPC makes off system sales as generation is available. The table below shows customers by class.

EKPC Member System Number of Customers by Class, 2004-2006

Year	Residential*	Commercial	Industrial	Utility Use and Other**	Total Customers
2004	456,679	28,125	136	377	485,316
2005	463,694	30,613	139	389	494,835
2006	471,086	30,200	135	418	501,839

Notes: * Residential Class consists of Residential, Seasonal and Public Buildings. There were some reclassifications in the Commercial Class during 2006.

** Utility Use and Other includes lighting.

EAST KENTUCKY POWER COOPERATIVE, INC.

PSC ADMINISTRATIVE CASE NO. 2007-00477

SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 1/04/08
REQUEST 36
RESPONSIBLE PERSON: **Jeffrey M. Brandt**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 36. Provide a listing of current generation sources: generation plant, by unit indicating date of commercial operation, fuel type, capacity. Identify any generating facilities that are currently under construction, and provide a brief description of such facilities.

Response 36.

Dale Power Station Unit 1, Dec 1, 1954, Coal, 24MW
Dale Power Station Unit 2, Dec 1, 1954, Coal, 24MW
Dale Power Station Unit 3, Oct 1, 1957, Coal, 79.8MW
Dale Power Station Unit 4, Aug 9, 1960, Coal, 79.8MW
Cooper Power Station Unit 1, Feb 9, 1965, Coal, 100MW
Cooper Power Station Unit 2, Oct 28, 1969, Coal, 220.9MW
Spurlock Power Station Unit 1, Sep 1, 1977, Coal, 340MW
Spurlock Power Station Unit 2, Mar 2, 1981, Coal, 585.8MW
Gilbert Unit 3, Mar 1, 2005, Coal, 293.6MW

Spurlock Power Station Unit 4, Under Construction, Coal, 300MW: Circulating Fluidized Boiler and Steam Turbine
Smith Generating Facility CT 1, Mar 1, 1999, Gas/Oil, 110MW/150MW (Summer/Winter)
Smith Generating Facility CT 2, Jan 1, 1999, Gas/Oil, 110MW/150MW (Summer/Winter)
Smith Generating Facility CT 3, Apr 1, 1999, Gas/Oil, 110MW/150MW (Summer/Winter)
Smith Generating Facility CT 4, Nov 15, 2001, Gas/Oil, 74MW/98MW (Summer/Winter)
Smith Generating Facility CT 5, Nov 15, 2001, Gas/Oil, 74MW/98MW (Summer/Winter)
Smith Generating Facility CT 6, Jan 12, 2005, Gas/Oil, 74MW/98MW (Summer/Winter)
Smith Generating Facility CT 7, Jan 12, 2005, Gas/Oil, 74MW/98MW (Summer/Winter)
Cagle's Diesel Generating Unit, 1998, Oil, 3.2MW
Cooper's Diesel Generating Unit, 2005, Oil, 1.6MW
Green Valley Landfill Generating Unit, Sep 9, 2003, LFG, 2.4MW
Laurel Ridge Landfill Generating Unit, Sep 15, 2003, LFG, 3.2MW
Laurel Ridge Landfill Generating Unit, Dec 16, 2005, LFG, 0.8MW
Bavarian Landfill Generating Unit, Sep 22, 2003, LFG, 3.2MW
Hardin Landfill Generating Unit, Jan 30, 2006, LFG, 2.4MW
Pendleton Landfill Generating Unit, Feb 1, 2007, LFG, 3.2MW
Smith Diesel Generating Unit, 2003, Oil, 3.2MW

EAST KENTUCKY POWER COOPERATIVE, INC.

PSC ADMINISTRATIVE CASE NO. 2007-00477

SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 1/04/08

REQUEST 37

RESPONSIBLE PERSON: **William A. Bosta**

COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 37. For the forecast period 2007-2020 (or a similar period most readily available), provide by year:

Request. o Expected generation capacity additions and retirements (by year), indicating type of unit, fuel type, capacity.

Response. These projected generation capacity additions are based on the IRP filed in October 2006, the 2006 Load forecast dated August 2006, and the Board approved Twenty-Year Financial Forecast dated March 2007. A schedule on size, timing, and type is provided below:

Winter Season	Capacity – MW	Type
2008	7	Landfill Gas Generation
2009	148	Combustion Turbines (2)
2009	278	Spurlock Unit 4-Fluidized Bed
2009	3	Landfill Gas Generation
2010	3	Landfill Gas Generation
2011	278	Smith Unit 1-Fluidized Bed
2011	74	Combustion Turbine

2011	3	Landfill Gas Generation
2012	74	Combustion Turbine
2012	3	Landfill Gas Generation
2013	74	Combustion Turbine
2013	3	Landfill Gas Generation
2014	3	Landfill Gas Generation
2015	74	Combustion Turbine
2015	3	Landfill Gas Generation
2016	278	Baseload Coal
2016	3	Landfill Gas Generation
2017	3	Landfill Gas Generation
2018	3	Landfill Gas Generation
2019	74	Combustion Turbine
2020	74	Combustion Turbine

Request. o Estimate of any generation sources (by year) from distributed generation, cogeneration, or other non-utility sources.

Response: There are no generation sources from distributed generation, cogeneration, or other non-utility sources estimated during the forecast period.

Request. o Estimated cumulative annual effect of new DSM programs on sales and peak demand.

Response: Peak demand estimates were included in the initial data request. Please see Request 11, Table DSM 6.

Request. o Average annual estimated growth rate for:
- o Total retail customers; sales; and peak demand.

Response: These growth rates are shown in Attachment 1.

Request. o Residential; total retail usage per customer

Response.

Residential Use Per Customer

Year	Monthly Average (kWh)	% Change
2007	1,199	
2008	1,214	1.2
2009	1,224	0.8
2010	1,231	0.6
2011	1,235	0.3
2012	1,244`	0.7
2013	1,252	0.7
2014	1,258	0.5
2015	1,263	0.4
2016	1,270	0.5
2017	1,275	0.4
2018	1,282	0.6
2019	1,289	0.6
2020	1,300	0.8

Request. o Total retail number of customers

Response. For the forecast period 2007-2020 the average annual estimated growth rate for total retail number of customers is 1.9 percent.

Request. o Inflation rate

Response. The inflation rate is estimated to be 3.0 percent per annum for the forecast period.

Request. o Residential, Industrial, and total retail energy cost per kWh

Response.

Per Unit Cost per KWH

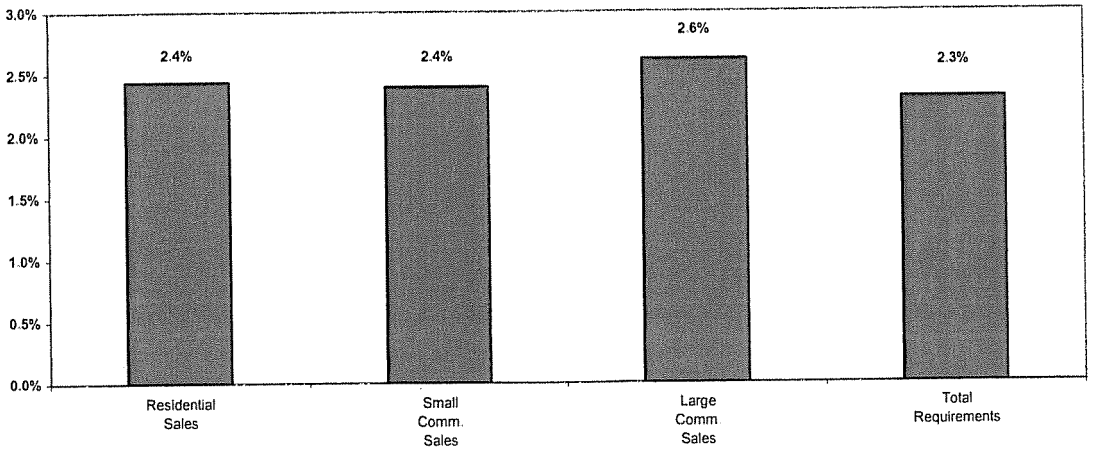
Average Annual Growth Rate for the Forecast Period 2007-2020

Residential	Industrial
2.0%	2.1%

Projected Energy and Peak Demand Growth
Compound Annual Rates of Change

	Historical Growth Rates			2006 Forecast Growth Rates		
	2000-2005	1995-2005	1985-2005	2006-2011	2006-2016	2006-2026
Total Energy Requirements	3.6%	6.3%	7.2%	2.8%	2.5%	2.3%
Firm Winter Peak Demand	4.6%	5.3%	4.5%	3.5%	2.9%	2.6%
Firm Summer Peak Demand	2.3%	3.7%	5.3%	2.7%	2.4%	2.3%

Average Annual Sales Growth
2006-2026



EAST KENTUCKY POWER COOPERATIVE, INC.

PSC ADMINISTRATIVE CASE NO. 2007-00477

SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 1/04/08
REQUEST 38
RESPONSIBLE PERSON: **Paul A. Dolloff**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 38. Provide statistics maintained on energy and demand impacts of any customers (if any) on net metering tariff. Indicate the technology employed; summarize the basic costs of interconnection and maintenance (e.g., connection charges, costs of backup power), describe any transmission issues of note, etc.

Response 38. Currently, there are five (5) net metering customers on the EKPC system as given in Table 38.1 below:

Table 38.1 Net Metering Customer Class, Cooperative, and Location

Customer Class	Electric Co-op	Location
Residential	Blue Grass Energy	Berea
Residential	Blue Grass Energy	Cynthiana
Residential	Clark Energy	Winchester
Residential	Jackson Energy	McKee
Commercial	Owen Electric	Campbell County

For each installation, the customer was charged an application fee, as outlined in the cooperative's net metering tariff.

Apart from pre-energization inspections and commissioning tests, net metering installations require no additional maintenance costs over that of non- net metering installations.

The Commonwealth's Net Metering Law neither makes provisions for nor specifies backup power rates. Likewise, the net metering tariff for each of the Member Systems is silent with regard to backup power.

Because of the extremely limited number of net metering customers, there have been no impacts to the transmission system, which is owned and operated by East Kentucky Power Cooperative on behalf of its distribution cooperative members.

Energy credit data, when available, and other information for each net metering installation are given below.

Blue Grass Energy – Berea

For this installation, the customer was responsible for the cost and installation of the required disconnect switch. The approximate cost for a disconnect switch is $100 plus installation. It is unknown if the customer installed the disconnect switch himself or hired an electrician.

Blue Grass Energy charged the customer for a dual register revenue meter, a GE KV2. The approximate cost for this meter is $300.

Blue Grass Energy did not retrofit the new, dual register revenue meter to work with their automatic meter reading system. Therefore, Blue Grass Energy manually reads this consumer's revenue meter to obtain the monthly energy usage and production numbers. Blue Grass Energy does not charge the customer a meter reading charge.

Blue Grass Energy did not charge the customer for performing inspections or for the commissioning tests.

Blue Grass Energy manually determines this consumer's monthly bill by subtracting the energy production and accumulation of energy credits, if any, from the energy consumption. With this net number, the billing department determines if the consumer's bill will have an energy charge or an energy credit and accounts accordingly.

The accumulation of energy credits for this customer is given in Table 38.2.

Table 38.2 Blue Grass Energy Net Metering Customer Credits

Billing Month	kWhr Consumed	kWhr Generated	Net kWhr	kWhr Credits
4/2007	129	46	83	0
5/2007	237	417	-180	-180
6/2007	256	471	-215	-395
7/2007	335	418	-83	-478
8/2007	436	327	109	-369
9/2007	342	118	224	-145
10/2007	443	468	-25	-170
11/2007	373	518	-145	-315
12/2007	335	472	-137	-452
1/2008	490	207	283	-169

Blue Grass Energy – Cynthiana

For this installation, the customer was responsible for the cost and installation of the required disconnect switch. The approximate cost for a disconnect switch is $100 plus installation. It is unknown if the customer installed the disconnect switch himself or hired an electrician.

Blue Grass Energy charged the customer for a dual register revenue meter, a GE KV2. The approximate cost for this meter is $300.

Blue Grass Energy did not retrofit the new, dual register revenue meter to work with their automatic meter reading system. Therefore, Blue Grass Energy manually reads this consumer's revenue meter to obtain the monthly energy usage and production numbers. Blue Grass Energy does not charge the customer a meter reading charge.

Blue Grass Energy did not charge the customer for performing inspections or for the commissioning tests.

Blue Grass Energy manually determines this consumer's monthly bill by subtracting the energy production and accumulation of energy credits, if any, from the energy consumption. With this net number, the billing department determines if the consumer's bill will have an energy charge or an energy credit and accounts accordingly.

The accumulation of energy credits for this customer is given in Table 38.3.

Table 38.3 Blue Grass Energy Net Metering Customer Credits

Billing Month	kWhr Consumed	kWhr Generated	Net kWhr	kWhr Credits
1/2006	51	23	28	0
2/2006	91	71	20	0
3/2006	67	87	-20	-20
4/2006	154	79	75	0
5/2006	209	15	194	0
6/2006	163	4	159	0
7/2006	136	151	-15	-15
8/2006	352	84	268	0
9/2006	218	108	110	0
10/2006	228	4	224	0
11/2006	241	26	215	0
12/2006	212	53	159	0
1/2007	342	36	306	0
2/2007	305	20	285	0
3/2007	236	19	217	0
4/2007	329	112	217	0
5/2007	126	32	94	0
6/2007	143	75	68	0
7/2007	132	91	41	0
8/2007	86	197	-111	-111
9/2007	159	338	-179	-290
10/2007	97	154	-57	-347
11/2007	210	84	126	-221
12/2007	149	0	149	-72

Clark Energy

For this installation, the customer was responsible for the cost and installation of the required disconnect switch. The approximate cost for a disconnect switch is $100 plus installation. The customer installed the disconnect switch himself.

Clark Energy charged the customer for a dual register revenue meter, an Elster Alpha meter, retrofitted with two automatic meter reading modules. Clark Energy's AMR is the TS1 system from Hunt Technologies. Two AMR modules were required: One for energy consumption and one for energy production. The customer was charged approximately $800 for the complete, AMR retrofitted revenue meter.

Clark Energy did not charge the customer for performing inspections or for the commissioning tests.

Clark Energy manually determines this consumer's monthly bill by subtracting the energy production and accumulation of energy credits, if any, from the energy consumption. With this net number, the billing department determines if the consumer's bill will have an energy charge or an energy credit and accounts accordingly.

The accumulation of energy credits for this customer is given in Table 38.4.

Table 38.4 Clark Energy Net Metering Customer Credits

Billing Month	kWhr Consumed	kWhr Generated	Net kWhr	kWhr Credits
4/2006	82	70	12	0
5/2006	194	232	-38	-38
6/2006	223	195	28	-10
7/2006	212	197	15	0
8/2006	238	211	27	0
9/2006	297	125	172	0
10/2006	245	186	59	0
11/2006	223	139	84	0
12/2006	221	142	79	0
1/2007	264	133	131	0

2/2007	241	129	112	0
3/2007	208	171	37	0
4/2007	203	189	14	0
5/2007	166	199	-33	-33
6/2007	169	270	-101	-134
7/2007	165	238	-73	-207
8/2007	171	229	-58	-265
9/2007	176	238	-62	-327
10/2007	167	191	-24	-351
11/2007	187	193	-6	-357
12/2007	206	129	77	-280

Jackson Energy

For this installation, the customer was responsible for the cost and installation of the required disconnect switch. The approximate cost for a disconnect switch is $100 plus installation. It is unknown if the customer installed the disconnect switch himself or hired an electrician.

Jackson Energy elected not to require a dual register revenue meter for this installation. Because the automatic meter reading system has the ability to accommodate net metering installations, no meter upgrade was necessary.

Jackson Energy retrofitted the customer's revenue meter to work with their automatic meter reading system. For this particular installation, the AMR module was programmed for a net metering installation. With that, the revenue meter can display energy consumption, production, and provide the net value. The customer was not charged for the AMR module or its programming.

Jackson Energy did not charge the customer for performing inspections or for the commissioning tests.

Jackson Energy determines this consumer's monthly bill by subtracting the accumulation of energy credits, if any, from the net energy consumption number provided by the AMR

module within the customer's revenue meter. From this adjusted net number, the billing department determines if the consumer's bill will have an energy charge or an energy credit and accounts accordingly.

This net metering customer was commissioned in December of 2007; therefore, no energy credit history is available.

Owen Electric

For this installation, the customer was responsible for the cost and installation of the required disconnect switch. The approximate cost for a disconnect switch is $100 plus installation. It is unknown if the customer installed the disconnect switch himself or hired an electrician.

Owen Electric elected not to require a dual register revenue meter for this installation. The existing solid state revenue meter has the ability to decrement as well as increment its energy consumption reading. Because Owen Electric is only interested in this customer's net energy figure (not independent readings for energy consumption and production), no meter upgrade was necessary.

The revenue meter has not been retrofitted with an automatic meter reading module. Therefore, Owen Electric continues to manually read this consumer's revenue meter to obtain the monthly energy usage. Owen Electric does not charge the customer a meter reading charge.

Owen Electric did not charge the customer for performing inspections or for the commissioning tests.

Because a single register revenue meter is used for this installation, separate energy consumption and production numbers are unknown. Owen Electric determines this consumer's monthly bill by subtracting the accumulation of energy credits, if any, from the net energy consumption number given by the revenue meter. From this adjusted net number, the billing department determines if the consumer's bill will have an energy charge or an energy credit and accounts accordingly.

In the past 16 months this customer has not accumulated any energy credits.

EAST KENTUCKY POWER COOPERATIVE, INC.

PSC ADMINISTRATIVE CASE NO. 2007-00477

SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 1/04/08
REQUEST 39
RESPONSIBLE PERSON: **William A. Bosta**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 39. Describe what resources are currently committed to energy planning and energy conservation activities? If possible, this response should also identify any resources, if any, at the member coop level as well.

- Full time employees – department, title, brief job descriptions.
- Educational programs re energy conservation; programs available.
- IRP process.
- Screening and administration of DSM programs.
- Other

Response 39.

- Full time employees – department, title, brief job descriptions.
  Energy Planning – N/A

  Energy Conservation Activities Employees
  - Manager of Member Services – responsible for oversight of Technical Services, Communications Services and Marketing Services

- Manager of Marketing Services – responsible for development and implementation of marketing programs related to Energy Conservation and DSM
- Marketing Representative – administers our DSM programs and promote Renewable Energy with the EnviroWatts program.
- Marketing Representative – administers our DSM programs and promotes Renewable Energy with the EnviroWatts program.
- Senior Engineer – Performs power quality studies and energy audits for Commercial and Industrial customers.
- Energy Services Technician – responsible for metering of Commercial and Industrial Customer issues, along with infrared and ultrasonic studies
- Energy Advisor – responsible for residential energy audits, Energy star compliance, ETS, and geothermal applications.

- Educational programs re energy conservation; programs available.

  Programs include:
  - Button Up
  - Tune-up
  - Geothermal
  - High Efficiency Heat Pumps
  - Home Energy Audits
  - Touchstone Energy Home
  - Touchstone Energy Manufactured Home
  - ETS
  - Compact Fluorescent Lights
  - Commercial and Industrial Energy audits
  - Infrared Testing
  - Ultrasonic Testing

- IRP and screening and administration of DSM programs.

  The following people are involved in these projects:

  - Senior Vice President of Power Supply
  - Vice President of Corporate Services
  - Manager of Pricing
  - Analyst, Resource Planning
  - Analyst, Pricing
  - Manager of Resource Planning
  - Manager of Member Services
  - Manager of Marketing Services
  - Marketing Representative

- Other – N/A

EAST KENTUCKY POWER COOPERATIVE, INC.

PSC ADMINISTRATIVE CASE NO. 2007-00477

SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 1/04/08
REQUEST 40
RESPONSIBLE PERSON: **William A. Bosta**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 40. Does the Company currently provide programs for Energy Assistance Funding? If so, provide program details.

Does the company currently have any low-income or lifeline rates in place? If so, provide a copy of relevant tariffs or tariff provisions. Also indicate if the company provides direct support to its low-income customers. Provide amounts associated with these programs/tariffs, by year, for the three years ending December 31, 2006.

Response 40. Please see the attached responses from the member cooperatives that have replied to this request.

EKPC Item No. 40. Responses provided by Big Sandy RECC.

Request Does the Company currently provide programs for Energy Assistance Funding? If so, provide program details.

Response No.

Request Does the company currently have any low-income or lifeline rates in place? If so, provide a copy of relevant tariffs or tariff provisions.

Response No.

Request Also indicate if the company provides direct support to its low-income customers. Provide amounts associated with these programs/tariffs, by year, for the three years ending December 31, 2006.

Response The company does not provide direct support to its low-income customers.

EKPC Item No. 40. Responses provided by Blue Grass Energy.

Request Does the Company currently provide programs for Energy Assistance Funding? If so, provide program details.

Response Blue Grass advises the member who is subject to disconnection about Human resources winter hardship regulations.

Blue Grass offers free energy audits.

Blue Grass offers payment arrangements and levelized budget billing for those who qualify.

Request Does the company currently have any low-income or lifeline rates in place? If so, provide a copy of relevant tariffs or tariff provisions. .

Response No tariffs.

Request Also indicate if the company provides direct support to its low-income customers. Provide amounts associated with these programs/tariffs, by year, for the three years ending December 31, 2006.

Response Blue Grass does not provide direct support.

EKPC Item No. 40. Responses provided by Clark Energy Cooperative.

Request Does the Company currently provide programs for Energy Assistance Funding? If so, provide program details.

Response Clark Energy Cooperative has an energy assistance funding program called Neighbor to Neighbor which allows the cooperative, cooperative members, and cooperative employees to contribute. The money collected in the Neighbor-to-Neighbor account is distributed once a year to Kentucky River Foothills and Gateway Community Services based on the cooperative membership in the areas served by these two community action organizations. Kentucky River Foothills and Gateway Community Services, use the money to supplement their assistance programs.

	2004	2005	2006	
Gateway	2196	1680	1680	
KRF	3033	2320	2320	
Totals	5229	4000	4000	**$13,229**

Request Does the company currently have any low-income or lifeline rates in place? If so, provide a copy of relevant tariffs or tariff provisions.

Response No.

Request Also indicate if the company provides direct support to its low-income customers. Provide amounts associated with these programs/tariffs, by year, for the three years ending December 31, 2006.

Response Clark Energy Cooperative provides no direct support to low-income customers.

EKPC Item No. 40. Responses provided by Farmers RECC.

Request Does the Company currently provide programs for Energy Assistance Funding? If so, provide program details.

Response Farmers RECC does not currently provide Energy Assistance Funding programs and have no low-income or lifeline rates in place.

Request Does the company currently have any low-income or lifeline rates in place? If so, provide a copy of relevant tariffs or tariff provisions.

Response Farmers RECC does not have low-income tariffs.

Request Also indicate if the company provides direct support to its low-income customers. Provide amounts associated with these programs/tariffs, by year, for the three years ending December 31, 2006.

Response Farmers RECC does not provide direct support to its low income-income customers, however, we will set up payment arrangements with customers if they desire.

EKPC Item No. 40. Responses provided by Fleming-Mason Energy Cooperative.

Request Does the Company currently provide programs for Energy Assistance Funding? If so, provide program details.

Response No.

Request Does the company currently have any low-income or lifeline rates in place? If so, provide a copy of relevant tariffs or tariff provisions.

Response No.

Request Also indicate if the company provides direct support to its low-income customers. Provide amounts associated with these programs/tariffs, by year, for the three years ending December 31, 2006.

Response The company does not provide direct support to its low-income customers.

EKPC Item No. 40. Responses provided by Inter-County Energy Cooperative.

Request Does the Company currently provide programs for Energy Assistance Funding? If so, provide program details.

Response Inter County Energy provides a space on the bill each month for customers to voluntarily donate funds to the Winter Care program. Those funds are transferred to the Community Action/Winter Care agency. Also, ad space is provided during the summer and winter months in the local section of the Kentucky Living magazine so that customers are reminded of the Winter Care program.

Request Does the company currently have any low-income or lifeline rates in place? If so, provide a copy of relevant tariffs or tariff provisions.

Response Inter County Energy does not have any low-income or lifeline rates in place.

Request Also indicate if the company provides direct support to its low-income customers. Provide amounts associated with these programs/tariffs, by year, for the three years ending December 31, 2006.

Response Inter-County Energy does not provide such support.

EKPC Item No. 40. Responses provided by Jackson Energy Cooperative.

Request Does the Company currently provide programs for Energy Assistance Funding? If so, provide program details.

Response Jackson Energy Cooperative does not have such a program.

Request Does the company currently have any low-income or lifeline rates in place? If so, provide a copy of relevant tariffs or tariff provisions.

Response Jackson Energy does not have any low-income tariffs.

Request Also indicate if the company provides direct support to its low-income customers. Provide amounts associated with these programs/tariffs, by year, for the three years ending December 31, 2006.

Response Jackson Energy Cooperative accepts vouchers from agencies for payment of electric bills for those customers meeting the eligibility requirements.

EKPC Item No. 40. Responses provided by Nolin RECC.

Request Does the Company currently provide programs for Energy Assistance Funding? If so, provide program details.

Response Nolin RECC does not have such a program.

Request Does the company currently have any low-income or lifeline rates in place? If so, provide a copy of relevant tariffs or tariff provisions.

Response Nolin RECC does not have low-income or lifeline rates.

Request Also indicate if the company provides direct support to its low-income customers. Provide amounts associated with these programs/tariffs, by year, for the three years ending December 31, 2006.

Response Nolin RECC does not provide direct support to its low-income customers.

EKPC Item No. 40. Responses provided by Owen Electric Cooperative.

Request Does the Company currently provide programs for Energy Assistance Funding? If so, provide program details.

Response Owen Electric Cooperative does provide such a program.

Request Does the company currently have any low-income or lifeline rates in place? If so, provide a copy of relevant tariffs or tariff provisions.

Response Owen Electric Cooperative does not have low-income rates.

Request Also indicate if the company provides direct support to its low-income customers. Provide amounts associated with these programs/tariffs, by year, for the three years ending December 31, 2006.

Response Owen Electric promotes voluntary participation in the WinterCare program to our consumers. Owen Electric matches all donations to the WinterCare program up to $5,000 annually. These funds are administered by the local community actions agencies in our service territory.

Owen Electric Matching Amounts:
2004 - $5,000
2005 - $5,000
2006 - $5,000

EKPC Item No. 40. Responses provided by Shelby Energy Cooperative, Inc.

Request Does the Company currently provide programs for Energy Assistance Funding? If so, provide program details.

Response No.

Request Does the company currently have any low-income or lifeline rates in place? If so, provide a copy of relevant tariffs or tariff provisions.

Response No.

Request Also indicate if the company provides direct support to its low-income customers. Provide amounts associated with these programs/tariffs, by year, for the three years ending December 31, 2006.

Response Shelby Energy Cooperative does not provide direct support.

EKPC Item No. 40. Responses provided by South Kentucky RECC

Request Does the Company currently provide programs for Energy Assistance Funding? If so, provide program details.

Response No.

Request Does the company currently have any low-income or lifeline rates in place? If so, provide a copy of relevant tariffs or tariff provisions.

Response No.

Request Also indicate if the company provides direct support to its low-income customers. Provide amounts associated with these programs/tariffs, by year, for the three years ending December 31, 2006.

Response South Kentucky RECC does not provide direct support for its low-income customers.

EKPC Item No. 40. Responses provided by Taylor County RECC

Request Does the Company currently provide programs for Energy Assistance Funding? If so, provide program details.

Response Taylor County RECC does not have programs for Energy Assistance Funding.

Request Does the company currently have any low-income or lifeline rates in place? If so, provide a copy of relevant tariffs or tariff provisions.

Response Taylor County RECC does not have low-income or lifeline rates.

Request Also indicate if the company provides direct support to its low-income customers. Provide amounts associated with these programs/tariffs, by year, for the three years ending December 31, 2006.

Response Taylor County RECC does not provide direct support to its low-income customers.

EAST KENTUCKY POWER COOPERATIVE, INC.

PSC ADMINISTRATIVE CASE NO. 2007-00477

SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 1/04/08
REQUEST 41
RESPONSIBLE PERSON: **William A. Bosta**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 41. Please provide member coop customer disconnect statistics for 2006. Compare EKPC (its member coops) disconnect rates to industry average experience. Do reconnect charges recover actual costs? Provide analyses and/or management's opinion about whether the implementation of "Smart Meters" would reduce these costs?

Response 41. Please see the attached responses from the member cooperatives that have replied to this request.

EKPC Item No. 41. Responses provided by Big Sandy RECC.

Request Please provide member coop customer disconnect statistics for 2006. ? Compare EKPC (its member coops) disconnect rates to industry average experience.

Response Big Sandy had 2,189 disconnects in 2006. Industry average is not available.

Request Do reconnect charges recover actual costs?

Response Historically, the reconnect charges do not cover the actual costs involved.

Request Provide analyses and/or management's opinion about whether the implementation of "Smart Meters" would reduce these costs?

Response It is management's opinion that smart meters (remote disconnect/reconnect), would reduce these costs if travel was not required. Manpower and transportation would save money in the long run.

EKPC Item No. 41. Responses provided by Blue Grass Energy.

Request Please provide member coop customer disconnect statistics for 2006. Compare EKPC (its member coops) disconnect rates to industry average experience.

Response Blue Grass Energy (BG Energy) disconnected 3,886 members for non-pay totaling $710,021. BG Energy reconnected 2,473 of those totaling $475,106.

Request Do reconnect charges recover actual costs?

Response BG Energy's reconnect charges were reviewed and updated in 2005 by the PSC. Based on this BG Energy is probably not recovering actual costs.

Request Provide analyses and/or management's opinion about whether the implementation of "Smart Meters" would reduce these costs?

Response There has been no discussion about Smart Metering.

EKPC Item No. 41. Responses provided by Clark Energy Cooperative

Request Please provide member coop customer disconnect statistics for 2006. Compare EKPC (its member coops) disconnect rates to industry average experience.

Response 1,857 terminated, 1,185 reinstated.
Clark does not have the industry average experience rates to do a comparison.

Request Do reconnect charges recover actual costs?

Response No.

Request Provide analyses and/or management's opinion about whether the implementation of "Smart Meters" would reduce these costs?

Response Management of Clark Energy cooperative has not preformed an analysis as to the cost saving of pre-paid or smart meters to determine actual cost or savings associated with the installation of this technology.

EKPC Item No. 41. Responses provided by Farmers RECC

Request Please provide member coop customer disconnect statistics for 2006. Compare EKPC (its member coops) disconnect rates to industry average experience.

Response In Farmer's annual "Non-Payment Disconnection/Reconnection Reports for 2005 and 2006, it was reported to the Commission that Farmers RECC disconnected the following number of consumers during 2006:

Total 1,193

Request Do reconnect charges recover actual costs?

Response Reconnect charges have not been changed since 1986 and do not cover actual costs.

Request Provide analyses and/or management's opinion about whether the implementation of "Smart Meters" would reduce these costs?

Response In our opinion, "Smart Meters" should significantly reduce costs.

EKPC Item No. 41. Responses provided by Fleming-Mason Energy Cooperative.

Request Please provide member coop customer disconnect statistics for 2006. Compare EKPC (its member coops) disconnect rates to industry average experience.

Month	# Terminated	Highest $ Amt Terminated	Lowest $ Amt Terminated	Median $ Amt Terminated	Avg $ Amt Terminated	Number Reinstated
01/06	85	1248.34	73.33	454.73	513.80	52
02/06	73	1343.06	29.67	513.99	513.99	44
03/06	85	1391.49	16.41	585.49	590.50	43
04/06	85	1336.90	66.89	430.53	445.55	41
05/06	86	800.00	77.31	416.52	415.14	46
06/06	74	896.54	56.10	402.38	424.63	47
07/06	62	990.39	18.53	322.68	344.18	38
08/06	64	939.22	102.68	343.28	388.74	32
09/06	72	1311.29	25.98	363.58	388.34	42
10/06	54	902.16	53.39	349.37	364.29	21
11/06	61	1326.50	128.45	361.32	383.34	27
12/06	36	907.76	89.28	398.22	441.06	16

Request Do reconnect charges recover actual costs?

Response Fleming-Mason Energy charges $25.00 per reconnect during regular working hours. When factoring in labor, overhead and transportation just for the actual reconnection, the charge does not cover the actual expense.

Request Provide analyses and/or management's opinion about whether the implementation of "Smart Meters" would reduce these costs?

Response Management at Fleming-Mason Energy has discussed implementation of "smart meters" to handle the disconnects for non-paying customers. Based upon preliminary figures, our opinion is that this would be cost efficient.

EKPC Item No. 41. Responses provided by Inter-County Energy Cooperative.

Request Please provide member coop customer disconnect statistics for 2006. Compare EKPC (its member coops) disconnect rates to industry average experience.

Response Disconnect Statistics:
January – December 2006 465

Request Do reconnect charges recover actual costs?

Response No, reconnect charges do not recover actual cost.

Request Provide analyses and/or management's opinion about whether the implementation of "Smart Meters" would reduce these costs?

Response Management's opinion is that implementation of "Smart Meters" would not reduce these cost given the cost of program implementation.

EKPC Item No. 41. Responses provided by Jackson Energy Cooperative.

Request Please provide member coop customer disconnect statistics for 2006. Compare EKPC (its member coops) disconnect rates to industry average experience.

Response

Customer Disconnect Statistics for 2006

	Remote Disconnects	Manual Disconnects	Total Disconnects
Totals	2084	1418	3502

Request Do reconnect charges recover actual costs?

Response Jackson Energy Cooperative breaks even in recovering actual costs.

Request Provide analyses and/or management's opinion about whether the implementation of "Smart Meters" would reduce these costs?

Response Jackson Energy Cooperative management has no opinion regarding "Smart Meters".

EKPC Item No. 41. Responses provided by Nolin RECC.

Request Please provide member coop customer disconnect statistics for 2006. Compare EKPC (its member coops) disconnect rates to industry average experience.

Response

Disconnects	7,920
Non-Payment Disconnects	1,898
Total	9,818

Request Do reconnect charges recover actual costs?

Response The cost of reconnect does not cover Nolin's cost.

Request Provide analyses and/or management's opinion about whether the implementation of "Smart Meters" would reduce these costs?

Response Nolin's management does not have opinion regarding "Smart Meters".

EKPC Item No. 41. Responses provided by Owen Electric Cooperative.

Request Please provide member coop customer disconnect statistics for 2006. Compare EKPC (its member coops) disconnect rates to industry average experience.

Response

Terminated	5,264
Reinstated	4,125

Request Do reconnect charges recover actual costs?

Response The service charges for Owen Electric are as follows:

Disconnect - $20.00
Reconnect - $20.00
Overtime - $30.00 (if reconnect is requested after-hours, the total of $50.00 applies).

These charges were calculated based average actual costs and have been approved by the KY PSC.

Request Provide analyses and/or management's opinion about whether the implementation of "Smart Meters" would reduce these costs?

Response While smart metering could allow a utility to remotely disconnect and reconnect services, a detailed evaluation would be needed determine how the overall costs would be impacted. Efficiencies gained in reduced human resource costs would be offset to some degree by an increase in technology and other capital investment costs.

EKPC Item No. 41. Responses provided by Shelby Energy Cooperative, Inc.

Request Please provide member coop customer disconnect statistics for 2006. Compare EKPC (its member coops) disconnect rates to industry average experience.

Total Disconnects	855
Less: Disconnected more than once in 12 months	356
Net Disconnects	499
Total Reconnects	601

Request Do reconnect charges recover actual costs?

Response No.

Request Provide analyses and/or management's opinion about whether the implementation of "Smart Meters" would reduce these costs?

Response Shelby Energy Cooperative has no opinion regarding "Smart Meters".

EKPC Item No. 41. Response provided by South Kentucky RECC

Request Please provide member coop customer disconnect statistics for 2006. Compare EKPC (its member coops) disconnect rates to industry average experience.

Response Disconnect for 2006 - 12,908

Request Do reconnect charges recover actual costs?

Response No.

Request Provide analyses and/or management's opinion about whether the implementation of "Smart Meters" would reduce these costs?

Response The management of South Kentucky RECC does not have an opinion regarding "Smart Meters".

EKPC Item No. 41. Responses provided by Taylor County RECC

Request Please provide member coop customer disconnect statistics for 2006. Compare EKPC (its member coops) disconnect rates to industry average experience.

Response Total disconnects for 2006 were 4,035.
The total disconnects for non-payment were 765.

Request Do reconnect charges recover actual costs?

Response Taylor County RECC's reconnect charge does not recover the actual cost.

Request Provide analyses and/or management's opinion about whether the implementation of "Smart Meters" would reduce these costs?

Response Taylor County RECC has not made analysis or formed an opinion regarding "Smart Meters".

EAST KENTUCKY POWER COOPERATIVE, INC.

PSC ADMINISTRATIVE CASE NO. 2007-00477

SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 1/04/08
REQUEST 42
RESPONSIBLE PERSON: **William A. Bosta**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 42. Please provide the total number of the member coop industrial customers at June 30, 2007. Of these customers, how many have opted-out of participating in the DSM program? Briefly describe the process an industrial customer must follow to opt out of the DSM program.

Response 42. As of June 30, 2007, there were 59 customers billed under EKPC Schedule B, 14 customers billed on Schedule C, and 5 customers were under special contracts.

At this time, there are no DSM programs available for which industrial customers may opt out.

EAST KENTUCKY POWER COOPERATIVE, INC.

PSC ADMINISTRATIVE CASE NO. 2007-00477

SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 1/04/08
REQUEST 43
RESPONSIBLE PERSON: **William A. Bosta**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 43. Please provide any available forecasts on the potential for DSM within the EKPC service territory.

Response 43. EKPC routinely reviews the potential for possible DSM programs as part of the development of its IRP. The proposed new programs contained in the IRP are a direct result of this assessment.

EAST KENTUCKY POWER COOPERATIVE, INC.

PSC ADMINISTRATIVE CASE NO. 2007-00477

SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 1/04/08

REQUEST 44

RESPONSIBLE PERSON: **William A. Bosta**

COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 44. Please provide any available forecasts on the potential for utilization of renewables and distributed generation within the EKPC service area.

Response 44. Please see the response to Item 37 for the anticipated level of renewable generation. EKPC did not include any distributed generation resources in its most recent IRP. This will be reevaluated in the next IRP forecast.

EAST KENTUCKY POWER COOPERATIVE, INC.

PSC ADMINISTRATIVE CASE NO. 2007-00477

SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 1/04/08
REQUEST 45
RESPONSIBLE PERSON: **James C. Lamb, Jr.**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 45. Please describe the process by which computer-based models are deployed to run sensitivity analyses in EKPC's IRP process.

Please describe the inputs to the modeling:

(a) Summarize all the cases run in the last IRP
(b) How are different supply-side and demand-side technologies pre-selected and selected in the modeling process?
(c) What input variables are employed to run sensitivity analyses?
(d) What distributional assumptions are employed for each of these variables?
(e) What statistical measures are employed to quantify the impact of individual input variables, and perhaps also combinations of variables, on results?

Response 45. As discussed in Section 8.(5), pages 8-52 and 8-53, of EKPC's 2006 IRP, EKPC utilizes the RTSim production cost model for it simulations. The load data uses statistical load modeling; therefore, load is varied statistically in each and every simulation or iteration. The natural gas and power markets were also modeled statistically, so they vary as well with each iteration of modeling. Each model iteration

also draws a unit forced outage scenario, thus varying the unit availabilities. All of these statistical variations create the sensitivity analyses and are combined into overall best, optimized cases.

(a) The RTSim model simulated literally thousands of cases in the optimization runs and created a list of the best cases. The top five of these cases are shown on page 8-54 of EKPC's 2006 IRP.

(b) Supply and demand side options are pre-selected based on historical observations and analyses. EKPC solicits requests for power supply options prior to constructing any generating units. Based on responses to these solicitations and self build options that EKPC has evaluated, the number of available generating technologies for future generation is narrowed to the best options reviewed to date. This process does not eliminate other technologies, it simply helps define the type of future generation that EKPC will need. The final selection of technology and design will be evaluated at great length and detail in the RFP process. Similar steps are taken for demand side options. Multiple options are evaluated and ranked in order of significance. The best of these options are modeled for optimization scenarios; however, the best technology available to achieve the demand side results will be studied in much greater detail on a project-by-project basis. This process is discussed in greater detail on pages 8-11 through 8-13 and pages 8-59 through 8-64 of EKPC's 2006 IRP.

(c) As discussed in the first part of this response, the load, natural gas prices, power market prices and forced outage rates are modeled statistically, thus developing sensitivity parameters to these key variables.

(d) As stated on page 8-52 of the IRP, the model uses statistical load methodology. There are ten sets of load data in the model. One of those is the 2006 LFR forecast, and the others are actual hourly load files from 1997

through 2005, adjusted to 2006, and then escalated to correspond to the new load forecast. The model draws load data a few days at a time from the different forecasts (to represent weather patterns) to assemble the hourly loads to be simulated. Each iteration of the model draws a new load forecast to simulate. Actual and forecasted market prices and natural gas prices synchronized to the load data are used in the simulation. Up to 500 iterations may be simulated by the model.

(e) Please see response (d) above.

EAST KENTUCKY POWER COOPERATIVE, INC.

PSC ADMINISTRATIVE CASE NO. 2007-00477

SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 1/04/08
REQUEST 46
RESPONSIBLE PERSON: **James C. Lamb, Jr.**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 46. What is the variable that is optimized within EKPC's planning models? To the extent that a model's objective function is focused on minimizing cost of service, describe the elements constituting the cost measure. To the extent the objective function embodies components other than costs currently incurred by utilities (such as, for example, social welfare impacts related to environmental and health costs), describe the justification for their inclusion and the methodologies for estimating their values.

Response 46. EKPC's resource planning process centers around least cost power supply, on a risk adjusted basis. EKPC measures power supply cost by computing total cost to serve, and then dividing by total MWH. Items such as social welfare costs are not included.

EAST KENTUCKY POWER COOPERATIVE, INC.

PSC ADMINISTRATIVE CASE NO. 2007-00477

SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 1/04/08
REQUEST 47
RESPONSIBLE PERSON: **William A. Bosta**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 47. Please provide any existing forecasts of the costs of developing and deploying the following in EKPC's service.

New conventional generation, for all types of fuels
New renewable generation, for all types
New DSM / energy efficiency programs, for all types, preferably organized by customer class

To the extent possible, disaggregate cost estimates into sub-categories such as, capital costs; fixed and variable operations and maintenance costs; fuel costs; etc. Provide expectations of cost of capital or discount rates assumed for new projects.

If forecasts are not available, please provide the information identified above for actual projects that have recently been developed by EKPC or its member coops.

Response 47. Attachment 1 provides a breakdown of costs for 2006 for EKPC's most recent conventional generation unit (Gilbert). It is a circulating fluidized bed unit. The Gilbert-related information on Page 1 of Attachment 1 is identified as Unit "3". The remaining information, i.e. Sections B and C, reflect all three generating units at Spurlock Station.

Attachment 2 provides a breakdown of costs for 2006 for one of EKPC's renewable generation facilities (Laurel Ridge). This is a methane gas renewable unit.

Attachment 3 provides information from the 2006 IRP about the cost of DSM/energy efficiency programs.

UNITED STATES DEPARTMENT OF AGRICULTURE
RURAL UTILITIES SERVICE

OPERATING REPORT -
STEAM PLANT

BORROWER DESIGNATION: KY0059

PLANT: Spurlock

PERIOD ENDED: December, 2006

INSTRUCTIONS - Submit an original and two copies to RUS or file electronically
For detailed instructions, see Bulletin 1717B-3

This data will be used to review your financial situation. Your response is required (7 U.S.C. 901 et. seq.) and may be confidential.

SECTION A. BOILERS/TURBINES

LINE NO.	UNIT NO. (a)	TIMES STARTED (b)	FUEL CONSUMPTION: COAL (1000 Lbs.) (c)	OIL (1000 Gals.) (d)	GAS (1000 C.F.) (e)	OTHER (f)	TOTAL (g)	OPERATING HOURS: IN SERVICE (h)	ON STANDBY (i)	OUT OF SERVICE: Scheduled (j)	Unsched. (k)
1.	1	2	1,936,356.00	95.01				8,430	0	329	1
2.	2	3	3,383,640.00	63.46				8,556	0	186	18
3.	3	13	1,439,878.00	306.87				6,664	0	1,650	446
4.											
5.											
6.	TOTAL	18	6,759,874	465.35	0.00	0.00		23,650	0	2,165	465
7.	Average BTU		11,591	138,600.45							
8.	Total BTU (10^6)		78,353,700.00	64,498			78,418,198				
9.	Total Del. Cost ($)		50	1.98							

SECTION A. BOILERS/TURBINES (CONT.)

LINE NO.	UNIT NO. (l)	SIZE (kW) (m)	GROSS GEN. (MWh) (n)	BTU PER kWh (o)
1.	1	340,277	2,357,275.00	
2.	2	585,765	4,284,469.00	
3.	3	293,597	1,825,266.00	
4.				
5.				
6.	TOTAL	1,219,639	8,467,010.00	9,262
7.	Station Service (MWh)		569,505.00	
8.	Net Generation (MWh)		7,897,505.00	9,929.49
9.	Station Service (%)		6.72	

SECTION B. LABOR REPORT

LINE NO.	ITEM	VALUE
1.	No. Employees Full-Time (Inc. Superintendent)	125
2.	No. Employees Part-Time	6
3.	Total Empl. - Hrs. Worked	397,400
4.	Oper. Plant Payroll ($)	7,272,411
5.	Maint. Plant Payroll ($)	5,569,934
6.	Other Accts. Plant Payroll ($)	470,490
7.	Total Plant Payroll ($)	13,312,835

SECTION C. FACTORS & MAX. DEMAND

LINE NO.	ITEM	VALUE
1.	Load Factor (%)	82.54%
2.	Plant Factor (%)	79.25%
3.	Running Plant Capacity Factor (%)	86.07%
4.	15 Minute Gross Maximum Demand (kW)	
5.	Indicated Gross Maximum Demand (kW)	1,171,000

EKPC
Cost of Net Energy Generated - Gilbert 2006

	Acct. No.	Production Expense	Amount		Mills/KWH	
1	50044	Operation Supr Engr Gilbert	$	432,639		
2	50144	Fuel Coal Gilbert	$	21,539,039		
3	50145	Fuel TDF Gilbert	$	277,470		
4	50148	Fuel Oil Gilbert	$	606,152		
5		Fuel Subtotal (2 through 4)	$	22,422,660	13.85	1,619,179 MWH Net Gen.
6	50244	Steam Expenses Gilbert	$	717,151		
7	50544	Electric Expenses-Gilbert	$	648,024		
8	50644	Misc Steam Power Exp Gilbert	$	2,703,673		
9	506444	Misc Steam Power Exp ENV Gilb	$	198,868		
10	50940	Allowances Gilbert	$	736,755		
11		Non-Fuel Sub-Total (1+ 6 through 10	$	5,004,471	3.09	
12		Operations Expense (5+11)	$	27,427,131	16.94	
13	510	Maint Supr Engr Gilbert	$	330,409		
14	51144	Maint of Structures Gilbert	$	5,734		
15	51244	Maint of Boiler Plant Gilbert	$	5,190,326		
16	51344	Maint of Electric Plant Gilber	$	954,630		
17		Maintenance Expense	$	6,481,099	4.00	
18		Total Production Expense (12+17)	$	33,908,230	20.94	
19	403144	Depr Exp Steam Prod Plt Gilber	$	9,574,725		
20	427	Interest Expense--Gilbert	$	17,525,489		
21		Total Fixed Cost (19+20)	$	27,100,214	16.74	
22		Total Power Cost (18+21)	$	61,008,445	37.68	

UNITED STATES DEPARTMENT OF AGRICULTURE
RURAL UTILITIES SERVICE

OPERATING REPORT - INTERNAL COMBUSTION PLANT

BORROWER DESIGNATION: KY0059
PLANT: Laurel Ridge
PERIOD ENDED: December, 2006

INSTRUCTIONS - Submit an original and two copies to RUS or file electronically. For detailed instructions, see Bulletin 1717B-3.

This data will be used to review your financial situation. Your response is required (7 U.S.C. 901 et. seq.) and may be confidential

SECTION A. INTERNAL COMBUSTION GENERATING UNITS

LINE NO.	UNIT NO. (a)	SIZE (kW) (b)	FUEL CONSUMPTION: OIL (1000 Gals.) (c)	GAS (1000 C.F.) (d)	OTHER (e)	TOTAL (f)	OPERATING HOURS: IN SERVICE (g)	ON STANDBY (h)	OUT OF SERVICE: Sche. (i)	Unsche. (j)	GROSS GENERATION (MWh) (k)	BTU PER kWh (l)
1.	1	4,000			575.00		7,405	0	232	1,123	28,056	
2.												
3.												
4.												
5.												
6.	TOTAL	4,000	0.00	0.00	575.00		7,405	0	232	1,123	28,056	
7.	Average BTU						STATION SERVICE (MWh)			488,093.91	1,536.00	
8.	Total BTU (10^6)				280,654.00	280,654.00	NET GENERATION (MWh)				26,520.00	10,582.73
9.	Total Del. Cost ($)						STATION SERVICE % OF GROSS				5.47	

SECTION B. LABOR REPORT

LINE NO.	ITEM	VALUE	LINE NO.	ITEM	VALUE
1.	No. Emp. Full Time (incl. Superintendent)	1	5.	Maint. Plant Payroll ($)	26,872
2.	No. Emp. Part Time		6.	Other Accounts Plant Payroll ($)	0
3.	Total Emp. - Hrs. Worked	3,255	7.	TOTAL Plant Payroll ($)	103,060
4.	Oper. Plant Payroll ($)	76,188			

SECTION C. FACTORS & MAXIMUM DEMAND

LINE NO.	ITEM	VALUE
1.	Load Factor (%)	84.22%
2.	Plant Factor (%)	80.07%
3.	Running Plant Capacity Factor (%)	94.72%
4.	15 Min. Gross Max. Demand (kW)	
5.	Indicated Gross Max. Demand (kW)	3,803

SECTION D. COST OF NET ENERGY GENERATED

LINE NO.	PRODUCTION EXPENSE	ACCOUNT NUMBER	AMOUNT ($) (a)	MILLS/NET kWh (b)	$/$10^6$ BTU (c)
1.	Operation, Supervision and Engineering	546	40,301		
2.	Fuel, Oil	547.1	0		
3.	Fuel, Gas	547.2	0		
4.	Fuel, Other	547.3	(23,877)		
5.	Energy for Compressed Air	547.4	0	0.00	
6.	FUEL SUBTOTAL (*2 thru 5*)	547	(23,877)	(.90)	
7.	Generation Expenses	548	70,486		
8.	Miscellaneous Other Power Generation Expenses	549	30,777		
9.	Rents	550	0		
10.	NON-FUEL SUBTOTAL (*1 + 7 thru 9*)		141,564	5.34	
11.	OPERATION EXPENSE (*6 + 10*)		117,687	4.44	
12.	Maintenance, Supervision and Engineering	551	79,966		
13.	Maintenance of Structures	552	0		
14.	Maintenance of Generating and Electric Plant	553	294,875		
15.	Maintenance of Miscellaneous Other Power Generating Plant	554	0		
16.	MAINTENANCE EXPENSE (*12 thru 15*)		374,841	14.13	
17.	TOTAL PRODUCTION EXPENSE (*11 + 16*)		492,528	18.57	
18.	Depreciation	553, 512	127,844		
19.	Interest	554, 513	202,079		
20.	TOTAL FIXED COST (*18 + 19*)		329,923	12.44	
21.	POWER COST (*17 + 20*)		822,451	31.01	

REMARKS (including Unscheduled Outages)

RUS Form 12f IC

Table 8.(3)(e)(4)-1 Continued

New Program	Program Costs Present value, 2006 $ Distribution System Admin	EKPC Admin	Distribution System Rebates	EKPC Rebates	Customer Investment
Compact Fluorescent Lighting	$ -	$ 641,505	$ -	$ -	$ -
Touchstone Energy Geothermal Heat Pump Home	$ 55,736	$ 46,480	$ 214,371	$ 107,185	$ 903,420
Touchstone Energy Air Source Heat Pump Home	$ 139,341	$ 179,420	$ 382,805	$ 191,403	$ 1,626,922
Touchstone Energy Manufactured Home	$ 13,934	$ 24,369	$ 22,968	$ 11,484	$ 76,561
Direct Load Control for Air Conditioners and Water Heaters	$ 8,066,519	$ 8,066,519	$ 11,841,491	$ 5,920,745	$ -
ENERGY STAR Clothes Washer	$ 38,281	$ 15,312	$ 191,403	$ 95,701	$ 918,732
ENERGY STAR Room Air Conditioner	$ 45,937	$ 15,312	$ 114,842	$ 57,421	$ 344,525
ENERGY STAR Refrigerator	$ 68,905	$ 15,312	$ 137,810	$ 68,905	$ 217,051
Programmable Thermostat with Electric Furnace Retrofit	$ 49,765	$ 7,656	$ 124,412	$ 62,206	$ 395,256
Dual Fuel Air Source Heat Pump with Propane Retrofit	$ 139,341	$ 7,013	$ 229,683	$ 114,842	$ 2,679,636
Commercial Lighting	$ -	$ 807,719	$ 1,160,819	$ 2,902,046	$ 4,974,937
C&I Demand Response	$ 1,612,953	$ 443,368	$ 4,939,467	$ 4,939,467	$ 2,923,276
Commercial Efficient HVAC	$ 11,484	$ 30,624	$ 373,235	$ 462,237	$ 746,470
Commercial Building Performance	$ 398,117	$ 30,624	$ 823,797	$ 779,391	$ 1,646,062
Commercial New Construction	$ 122,498	$ 91,873	$ 1,714,967	$ 2,082,460	$ 3,429,935
Commercial Efficient Refrigeration	$ 2,680	$ 30,624	$ 234,468	$ 760,481	$ 468,936
Industrial Premium Motors	$ 3,828	$ 15,312	$ 382,805	$ 1,148,416	$ 856,718
Industrial Variable Speed Drives	$ 2,680	$ 76,561	$ 2,636,762	$ 6,699,091	$ 4,482,496

8.(3)(e)(5). Projected cost savings, including savings in utility's generation, transmission and distribution costs.

The projected cost savings for each Existing and New DSM programs are shown below in Table 8.(3)(e)(5)-1. Values shown are the benefits in the Total Resource Cost test. In

EAST KENTUCKY POWER COOPERATIVE, INC.

PSC ADMINISTRATIVE CASE NO. 2007-00477

SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 1/04/08
REQUEST 48
RESPONSIBLE PERSON: **Jeffrey M. Brandt**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 48. Please provide a description of any plans to modify existing coal and/or gas facilities to improve plant efficiency; to utilize renewable technologies. Please address the costs and benefits associated with these projects.

Response 48. In the past, EKPC has implemented a number of technologies to improve efficiency on its exiting steam fleet. These technologies include computerized controls, improved burner designs, better gas cleaning systems, and higher performance turbines.

EKPC is considering several methods to increase efficiency over the next ten years. These include:

- Operating steam units at higher steam temperatures and pressures. This could be a possibility for increasing unit efficiency. It would require somewhat extensive upgrades on existing equipment but could be considered as part of a CO2 strategy. Specific costs have not been developed.

- Repowering. Repowering incorporates new power generating technology into an existing plant, while using much of the existing power plant facility, and typically increases plant capacity. EKPC is currently studying repowering options at two of its plants. Some repowering options can increase capacity by 25 to 30 percent and improve plant efficiency by 5 to 13 percent. Specific costs have not yet been developed.

- Power plant retrofit. Power plants are traditionally renovated after about 30 years of production. These renovations may take the form of a retrofit, which would increase the capacity of the power plant using traditional technology, or the renovation may include a more extensive repowering process, in which higher efficiency, cleaner coal technologies are installed in the existing plant.

At this time, EKPC is in the process of evaluating specific efficiency (heat rate) goals and has not established targets. EKPC is also evaluating several retrofit/repowering options to satisfy regulatory constraints and will ultimately choose the least cost option. Specific costs have not yet been developed.

EKPC is currently permitted to utilize wood waste, a renewable, at Cooper Station and is doing so. Methods to maximize the delivery rate of the material into the boiler are being investigated. Specific costs have not yet been developed.

Other forms of renewable fuels, such as switch grass, will be considered when they become available. The Gilbert Unit is currently permitted to utilize tire-derived fuel (TDF). However, TDF is not considered a renewable fuel. The ability of the Gilbert Unit to utilize alternative fuels such as TDF demonstrates that Gilbert and other Circulating Fluidized Bed Boilers may be able to adapt to utilizing renewable fuels in the future.