



Agenda



- ***Energy Management – Where are we now?***
- ***The latest on Utility Rate Issues and Funding Opportunities***
- ***Industry Update: David Huff LGE-KU***
- ***Is Power Factor correction a problem?***
- ***Moving from the Energy Management Plan to Budgeted Actions***
 1. ***Why do an Energy Audit?***
 2. ***Best Practices & Pitfalls (KEEMA Committee Presentations)***
 - ***Lighting***
 - ***Operations best-practices***
 - ***Building Occupant best-practices***
 3. ***Justification of Implementing Best Practices***
- **Noon Lunch – Thank you to our sponsor Perfection Group**
 4. ***Funding of Best Practices***
- ***Industry Update: Michel Pahutski DUKE***
- ***Roundtable Discussion-address expressed concerns***
- ***Wrap-Up***

Jim Gardner, Vice-Chairman Kentucky Public Service Commission

“With the Kentucky energy outlook so volatile, it is critical that energy efficiency is a significant part of the decision making. Emerging demand-side management programs should help to encourage this to happen.”



Energy Management

Where are we now?

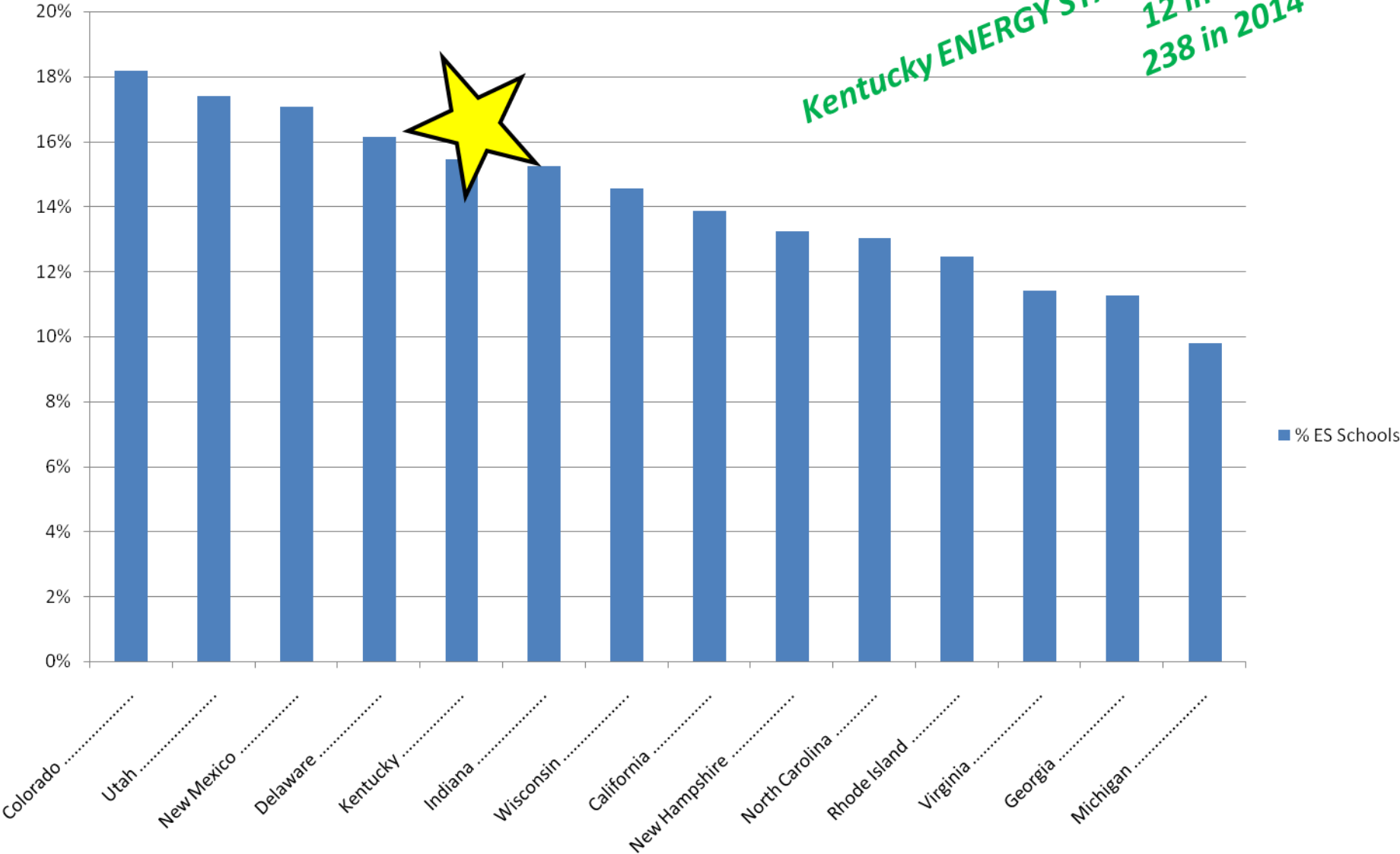
District Ranking by 2013 Energy Utilization Index (EUI)

Rank	District	2010 EUI	2013 EUI	Rank	District	2010 EUI	2013 EUI	Rank	District	2010 EUI	2013 EUI	Rank	District	2010 EUI	2013 EUI
1	Butler	42.8	35.2	42	Carlisle	46.9	49.9	83	Boyle	65.9	57.1	124	Letcher	62.9	64.9
2	Corbin	51.6	36.3	43	Allen	57.1	50.0	84	Raceland- Worthington	67.0	57.3	125	Pike County	51.6	65.2
3	Walton-Verona	44.6	39.7	44	Magoffin	60.7	50.1	85	Rowan	72.3	57.3	126	Johnson	78.2	65.5
4	Robertson	114.5	40.2	45	Barren	49.8	50.1	86	Pineville	54.7	57.4	127	Caverna	84.2	65.9
5	Casey	49.5	40.3	46	Trigg	60.2	50.2	87	Woodford	63.5	57.5	128	Ballard	80.1	66.3
6	Anderson	52.3	40.8	47	Russellville	52.5	50.3	88	Madison	56.4	57.9	129	Washington	83.5	66.4
7	Owen	62.5	41.3	48	Southgate	47.2	50.6	89	Cloverport	72.7	58.0	130	Marshall	70.9	66.5
8	Scott	53.3	42.1	49	Glasgow	62.6	50.7	90	Clark	74.7	58.3	131	Hickman	61.9	67.0
9	Murray	47.2	42.2	50	Estill	53.4	51.1	91	Monroe	48.6	58.3	132	Laurel	64.0	67.0
10	Oldham	45.7	42.3	51	Paintsville	53.3	51.1	92	Webster	75.5	58.6	133	Carroll	82.9	67.2
11	Monticello	58.0	43.0	52	Russell	70.3	51.1	93	Harrison		59.1	134	Union	69.1	67.2
12	Hardin	54.3	43.7	53	Augusta	55.6	51.5	94	Clay	65.4	59.2	135	Boone	74.0	67.3
13	Bullitt	53.7	43.7	54	Frankfort	80.7	51.5	95	Elliott	48.8	59.6	136	Montgomery	70.2	67.7
14	Warren	50.7	44.0	55	Garrard	51.5	51.8	96	Perry	67.0	59.9	137	Berea	75.7	67.8
15	Burgin	60.5	44.5	56	Lawrence	68.6	52.0	97	Menifee	90.4	60.0	138	Campbell	70.2	67.9
16	Grayson	60.0	44.6	57	Paris	59.6	52.3	98	Jenkins	67.6	60.1	139	Bell	104.3	68.5
17	Nicholas	44.5	45.0	58	Pulaski	52.4	52.4	99	Owensboro	70.1	60.4	140	Danville	64.6	68.8
18	Taylor	64.7	45.5	59	Spencer	63.1	52.5	100	Henry	67.7	60.4	141	Muhlenberg	68.5	68.9
19	Wolfe	36.3	45.6	60	Marion	60.3	52.5	101	Mercer	78.3	60.5	142	McCracken	62.7	69.4
20	Jessamine	50.3	45.9	61	Boyd	81.2	52.5	102	West Point	DNR	60.5	143	Morgan	116.8	69.9
21	Gallatin	60.0	46.1	62	Campbellsville	76.4	52.6	103	Hazard	87.2	60.6	144	Pikeville	81.9	70.6
22	Trimble	52.3	46.2	63	Caldwell	60.7	52.8	104	Breckinridge	71.2	60.8	145	Simpson	73.6	71.4
23	Dawson Springs	61.0	46.7	64	Metcalfe	60.9	52.8	105	Bardstown	62.8	60.9	146	Anchorage	73.8	71.5
24	Clinton	53.5	46.8	65	Nelson	53.0	53.0	106	Fulton Co.	63.7	61.1	147	Hopkins	71.7	71.8
25	Fleming	69.8	47.0	66	Bracken	55.0	53.1	107	LaRue	55.1	61.7	148	Bellevue	68.4	72.0
26	Wayne	64.2	47.1	67	Edmonson	58.7	53.3	108	Bourbon	65.0	61.8	149	Henderson	74.1	72.2
27	Erlanger	56.9	47.1	68	Russell	80.5	53.4	109	Bowling Green	73.6	61.8	150	Covington Ind.	80.5	72.5
28	Science Hill	56.5	48.1	69	Cumberland	71.1	53.5	110	Franklin	87.3	62.3	151	Beechwood	62.6	73.2
29	Jackson Co	57.4	48.3	70	Whitley	57.7	53.6	111	Grant	70.7	62.3	152	Hart	73.5	73.2
30	McLean	45.9	48.4	71	Lee	78.3	53.8	112	Mason	57.9	62.5	153	Fayette	78.2	73.9
31	Crittenden	57.1	48.5	72	Kenton	64.9	54.2	113	Ashland	75.1	62.6	154	Barbourville	76.8	74.7
32	Williamstown	63.3	48.6	73	Livingston	56.9	54.2	114	Jefferson	68.2	62.6	155	Bath	87.8	74.9
33	Lyon	53.7	48.6	74	Williamsburg	54.9	54.5	115	Dayton	67.4	62.8	156	Middlesboro	60.9	76.7
34	Meade	48.7	48.9	75	Silver Grove	69.2	54.6	116	Mayfield	43.6	62.9	157	Somerset	89.8	77.1
35	Martin	64.0	49.1	76	Lincoln	70.7	55.0	117	Eminence	85.3	63.2	158	Ft. Thomas	72.2	77.7
36	Floyd	52.0	49.1	77	Carter	59.3	55.2	118	Lewis	70.4	63.3	159	Breathitt	64.0	79.6
37	Pendleton	55.9	49.2	78	Logan	54.5	55.2	119	Knott	DNR	64.0	160	Powell	97.0	82.8
38	Shelby	71.6	49.2	79	Christian	70.1	55.4	120	Graves	60.2	64.2	161	Green	88.2	87.6
39	Hancock	57.8	49.5	80	Knox	64.8	55.8	121	Elizabethtown	72.9	64.3	162	McCreary	94.8	89.0
40	Daviess	53.9	49.5	81	Calloway	56.2	56.4	122	Adair	71.1	64.7	163	East Bernstadt	88.7	89.7
41	Newport	76.1	49.9	82	Rockcastle	59.9	56.7	123	Ludlow	107.9	64.9	164	Jackson Ind	117.6	118.6

% ENERGY STAR Schools

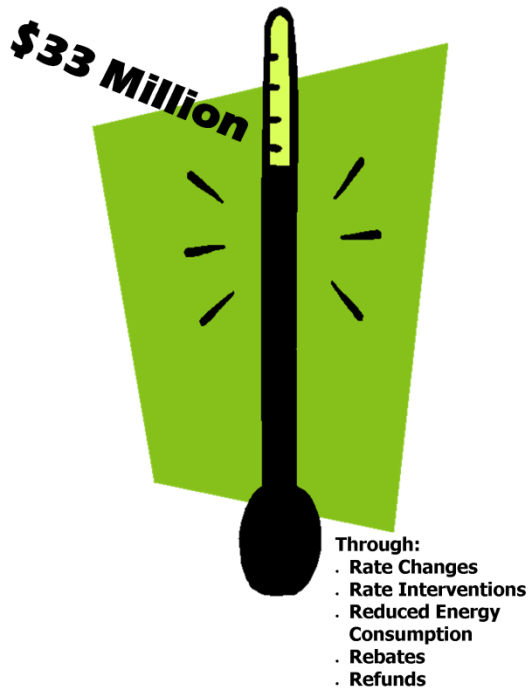
January 22, 2014

Kentucky ENERGY STAR SCHOOLS
12 in 2008
238 in 2014



Cumulative Monetary Savings

SAVINGS TO DATE



Cumulative Savings To Date		
Actions Taken	FY2012-13	Cumulative FY2010-13
Consumption	\$ 12,900,000	\$ 25,500,000
Rate Correction	\$ 1,480,000	\$ 4,230,000
Utility Case Intervention	\$ 350,000	\$ 1,680,000
Rebates & Refunds		\$ 1,420,000
Total	\$ 14,730,000	\$ 32,830,000

Utility Rate Update

Utility Rate Update

- Tariff Access
- DUKE Rate EH
- LGE-KU Grandfathered Service
- Minimum Bills

Access to Rates

psc.ky.gov

The screenshot shows the KY Public Service Commission website in a Windows Internet Explorer browser. The page title is "Interest on Deposits". The main content area features a large blue box with the following text:

Interest on Deposits

Pursuant to **KRS 278.460**, the Kentucky Public Service Commission has determined that the interest rate on utility deposits for the calendar year 2014, effective January 1, 2014, shall be:

0.12%

For additional information, [click here](#)

Special information for water districts and associations, [click here](#)

The website also includes a navigation menu with items like "About the Commission", "Commission Records", "For Consumers", "Utility Information", "SiteMap", and "Contact Us". A search bar is located at the top right. The footer contains "Latest Press Releases" and "Latest Orders" sections with various news items and case updates.

Access to Rates

psc.ky.gov

Kentucky Public Service Commission

Navigation: [About the Commission](#) | [Commission Records](#) | [For Consumers](#) | [Utility Information](#) | [Site Map](#) | [Contact Us](#)

Search: Search All Files [] Search

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Navigation Menu (Open):

- Disclaimer
- Administrative Cases Index 1980-2008
- Management Audit Reports
- Docket Web Reports
- Non-Electronic Cases
- Electronic Cases
- Financial Reports
- Audit Reports
- Orders
- Tariffs and Contracts
- Staff Opinions
- PSC Law

Home and FAQ

- Current Tariffs / Contracts
- Search Tariffs / Contracts
- E-File Login / Register
- Filing Registration Instructions
- Tariff Filing Instructions
- Tariff Monitoring

Latest Orders

- *New!* Case: 2013-00475, Kentucky Power Company - Integrated Resource Plan
- *New!* Case: 2013-00385, Kenergy Corp. - Rates - Flow-Thru
- *New!* Case: 2013-00384, Jackson Purchase Energy Corporation - Rates - Flow-Thru
- *New!* Case: 2013-00475, Kentucky Power Company - Integrated Resource Plan
- *New!* Case: 2013-00385, Kenergy Corp. - Rates - Flow-Thru

Footer: <http://psc.ky.gov/Home/Library?type=Tariffs>

Access to Rates

psc.ky.gov

KY Public Service Commission - Windows Internet Explorer

http://psc.ky.gov/Home/Library?type=Tariffs

File Edit View Favorites Tools Help

Google Search Share More >> Sign In

Home > Commission Records > Tariffs and Contracts > Current Tariffs / Contracts

Search All Files Search

Return to Tariffs Library

Last Changed	Name
	Electric
	Natural Gas
	Sewer
	Telecommunications
	Water
	Xtra Info

Kentucky Public Service Commission
Address: P.O. Box 615, 211 Sower Boulevard, Frankfort, Kentucky 40602-0615
Phone: (502) 564-3940, Fax: (502) 564-3460, Hotline: 1-800-772-4636
Office Hours: Monday - Friday 8am - 5pm
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Google Translate
Select Language

Gadgets powered by Google

Done

start | Inboxes - Microsoft Out... | RE: You might be a St... | Spring 2014 | spring training.ppt [C... | Annual Meeting 2014 ... | KY Public Service Com... | 3:04 PM

Access to Rates

psc.ky.gov

The screenshot shows the KY Public Service Commission website in Internet Explorer. The browser address bar displays the URL: <http://psc.ky.gov/Home/Library?type=Tariffs&folder=Electric>. The website header includes the Kentucky Public Service Commission logo and navigation links: [About the Commission](#), [Commission Records](#), [For Consumers](#), [Utility Information](#), [SiteMap](#), and [Contact Us](#). There are also links for [Orders](#), [Press Releases](#), and a [twitter](#) follow button.

Below the navigation, there are buttons for [Register](#) and [Login](#), and a search bar labeled "Search All Files". The main content area shows the folder path: [Return to Tariffs Library](#) | [Go to Parent Directory](#). The current folder is "Electric".

Last Changed	Name
	American Electric Power Company (Kentucky Power Company)
	Big Rivers Electric Corporation
	Big Sandy RECC
	Bluegrass Energy Coop. Corp
	Clark Energy Cooperative
	Cumberland Valley Electric
	Duke Energy Kentucky
	East Kentucky Power Cooperative, Inc
	Farmers RECC
	Fleming-Mason RECC
	Grayson RECC
	Inter-County RECC
	Jackson Energy Coop. Corp
	Jackson Purchase Electric Coop Corp
	Kenergy Corp
	Kentucky Utilities Company
	Licking Valley RECC
	Louisville Gas and Electric Company
	Meade County RECC

The Windows taskbar at the bottom shows the Start button, several open applications (Inbox - Microsoft Out..., RE: You might be a St..., Spring 2014, spring training.ppt [C..., Annual Meeting 2014 ...), and the KY Public Service Com... window. The system tray shows the Internet icon, a volume icon, and the time 3:05 PM.

Access to Rates

psc.ky.gov

The screenshot shows a Windows Internet Explorer browser window displaying the Kentucky Public Service Commission website. The address bar shows the URL: <http://psc.ky.gov/Home/Library?type=Tariffs&folder=Electric/Duke Energy Kentucky>. The page header includes the Kentucky Public Service Commission logo and navigation links: [About the Commission](#), [Commission Records](#), [For Consumers](#), [Utility Information](#), [SiteMap](#), and [Contact Us](#). A search bar is present with the text "Search All Files" and a search button. Below the search bar, there are links for "Register" and "Login". The main content area displays the folder "Duke Energy Kentucky" and a table of files:

Last Changed	Name
	Contracts
	Franchise Agreements
2013-12-02	Tariff.pdf

Below the table, there is contact information for the Kentucky Public Service Commission: Address: P.O. Box 615, 211 Sower Boulevard, Frankfort, Kentucky 40602-0615; Phone: (502) 564-3940, Fax: (502) 564-3460, Hotline: 1-800-772-4636; Office Hours: Monday - Friday 8am - 5pm. A Google Translate widget is also visible. At the bottom of the browser window, a taskbar shows several open applications: start, Inbox - Microsoft Out..., KU bills - Message (H..., spring training.ppt [C..., Presentations, and KY Public Service Com... A notification bubble in the bottom right corner states: "This document was sent to the printer" with details: Document name: 'Tariff.pdf', Printer name: '\\alpha\Energy Brother 4040CN', Time sent: 1:16:49 PM 2/6/2014, Total pages: 2.

DUKE Rate EH

Optional Space Heating Rate

- Schools with one point of delivery
- Permanently connected service
- Primary source of heating or heating and cooling

DUKE DS vs EH

Loads < 500 KW

DS

Service Charge	\$15
Energy: 1 st 6,000 Kwh	\$.085274
Energy: Next 300 Kwh/kw	\$.053748
Demand KW	\$7.75

EH

Service Charge		\$7.50
Energy Kwh		\$.0065153

For service October thru May

LGE-KU Grandfathered Service

- Customers @ February 6, 2009
- Rates AES, GS, PS & TOD

KU PS vs TODS

Loads > 250 KW

PS

Service Charge		\$90
Energy Kwh		\$.03564
Summer KW		\$15.30
Winter KW		\$13.20

TODS

Service Charge		\$200
Energy Kwh		\$.03773
Peak KW		\$4.55
Intermediate KW		\$2.94
Base KW		\$3.62

LGE PS vs TODS

Loads > 250 KW

PS

Service Charge		\$90
Energy Kwh		\$.04060
Summer KW		\$16.40
Winter KW		\$14.01

TODS

Service Charge		\$200
Energy Kwh		\$.03990
Peak KW		\$6.11
Intermediate KW		\$4.51
Base KW		\$4.00

Bluegrass

	0 - 100 Kw	<100 Kw TOD	101-500 Kw	>500 Kw
Schedule	SC-1	SC-2	LP-1	LP-2
Customer	\$27.79	\$35.00	\$55.57	\$111.14
Energy	\$.08384		\$.05608	\$.04994
On-Peak		\$.12650		
Off-Peak		\$.07000		
Demand	\$7.78		\$8.34	\$8.34

Clark

	1 Ø < 50 Kw Public	<50 Kw	>50 - <500 Kw	>500 Kw
	E	C	L	P
Customer	\$16.257	\$50.14	\$63.81	\$86.88
Energy	\$.09937	\$.09885	\$.07132	\$.06116
Demand			\$6.47	\$6.21

Fleming Mason

	<25 Kva	30-112.5 Kva	>112.5 Kva	All Electric
Schedule	RSP	SGS	LGS	AES
Customer	\$15.00	\$49.23	\$65.51	\$64.88
Energy		\$0.06516	\$0.05381	\$0.08286
≤ 300	\$0.06681			
301-500	\$0.07681			
>500	\$0.10681			
Demand		\$7.41	\$6.93	

Inter-County

	<50 Kw	>50 Kw	AES
	2	4	5
Customer	\$6.28	\$12.54	
Energy	\$.08938	\$.07534	\$.07793
Demand	\$4.54	\$4.54	

Owen

	<50 Kw	<50 Kw TOD	> 50 Kw	>50 Kw TOD	>500 Kw
Schedule	I	1-C	II	2-A	LP-2
Customer	\$21.12	\$24.51	\$21.31	\$61.33	\$111.14
Energy	\$.08846		\$.06498		\$.04994
On-Peak		\$.10413		\$.10345	
Off-Peak		\$.06026		\$.06002	
Demand			\$6.13	\$8.34	\$8.34

Shelby

	<50 Kw	>50 Kw	TODS >200 Kw
	11	2	22
Customer	\$33.88	\$52.18	\$45.92
Energy	\$.09020	\$.06435	
1 st 100 Kwh per Kw			\$.07322
Next 100 Kwh per Kw			\$.06682
> 200 Kwh per Kw			\$.06044
Demand		\$5.17	\$5.17

Minimum Bill Charges

Typical Bill

Service Charge	\$90 per month
Energy Charge	\$.04060 per Kwh
Demand Charge	\$16.40 per KW
DSM	@ \$.0003 per Kwh
Environmental Surcharge	@ 7.1 %
Fuel Adjustment	@\$.0035 per Kwh
School Tax	@ 3 %
Franchise	@.55 %

Minimum Charges

- DUKE – Rate DS & DT billing demand > 85 % of highest monthly KW prior 11 months
- LGE/KU – Billing Demand (KW)

PS	TODS		
	Peak	Inter	Base
<u>Greater of:</u>	<u>Greater of:</u>		
50 KW	n/a	n/a	250 KW
50 % Prior 11 Months		75 % Prior 11 Months	
60 % Contract Capacity	n/a	n/a	75 % Contract Capacity

Minimum Charges

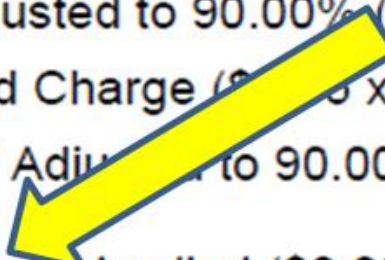
- BLUEGRASS
 - As specified in service contract
- CLARK
 - \$.75 per KVA of transformer capacity
 - As specified in service contract
- SHELBY
 - \$1.00 per KVA of transformer capacity
 - As specified in service contract

ELECTRIC CHARGES

Contract 195708

Rate Type: Time-of-Day Secondary Service

\$	200.00	Basic Service Charge
\$	3,264.40	Energy Charge ($\$0.03773 \times 86,520$ kWh)
\$	785.40	Peak Demand Charge ($\$4.25 \times 184.8$ kW)
\$	19.13	87.85% Peak PF Adjusted to 90.00% ($\$4.25 \times 4.5$ kW)
\$	496.08	Intermediate Demand Charge ($\$2.65 \times 187.2$ kW)
\$	11.93	87.88% Intermed PF Adjusted to 90.00% ($\$2.65 \times 4.5$ kW)
\$	830.00	Base Demand Minimum Applied ($\$3.32 \times 250.0$ kW)
\$	41.53	Electric DSM ($\$0.00048 \times 86,520$ kWh)
\$	231.57	Environmental Surcharge (7.36% x ($\$5,648.47 - \$2,502.16$))
\$	244.85	Fuel Adjustment ($\$0.00283 \times 86,520$ kWh)
\$	183.75	Rate Increase For School Tax (3.00% x $\$6,124.89$)
\$	33.69	Franchise Fee-Carrollton (0.55% x $\$6,124.89$)
\$	6,342.33	Total Charges Contract 195708



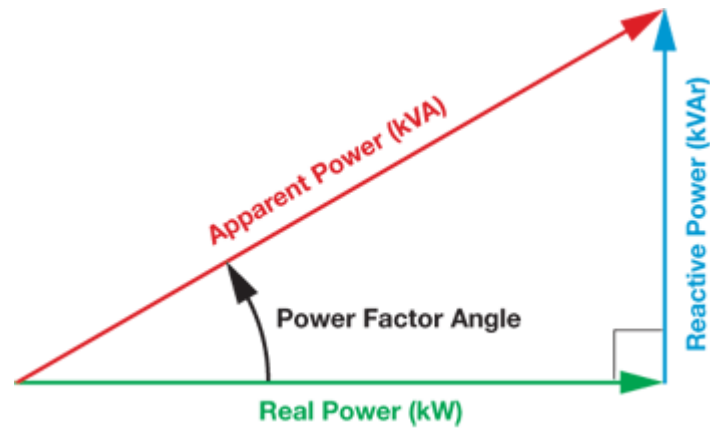
Rate Comparison Model

Power Factor

Power Components

- **Real power (kW)** — the work-producing power that is used to actually run the equipment
- **Reactive power (kVAr)** — the non-work producing power that is required to magnetize and start up equipment
- **Apparent power (kVA)** — the combination of real power and reactive power

Power Triangle



$$\text{Power Factor} = \frac{\text{Real Power (kW)}}{\text{Apparent Power (kVA)}} = \frac{\text{kW}}{\sqrt{(\text{kW})^2 + (\text{kVAr})^2}}$$

Three Basic Circuits or Loads

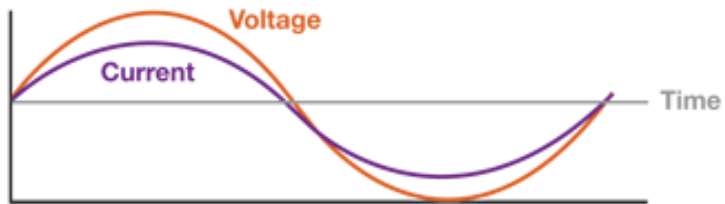
- Resistive
- Inductive
- Capacitive
- Or any combination
 - Resistive Inductive
 - Inductive Capacitive
 - Resistive Capacitive
 - Resistive Inductive Capacitive

Load Examples

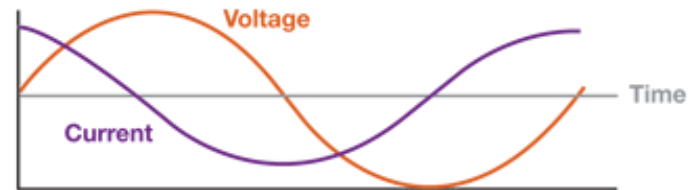
- Resistive: Incandescent Lamp - Resistance heat
- Inductive: Motors –Contactor Coils –Relays (coils)
- Ballasts
- Capacitive: Start &Run Capacitors –Power Factor
Correction Capacitors

Power Factor

Unity Power Factor



Less Than Unity Power Factor



Why Utility Power Factor Penalty

- Low power factor increases cost to serve



- Extra generation & transmission capacity



- Distribution Capacitors



Power Factor Penalty

- Power factor \geq to 90% - No Penalty
- Less than 90%: Billing demand in KW = KVA times 0.90.
- Power factor Determination:
 - a. Continuous measurement
 - b. Testing

Benefits Of Improving Power Factor

- Your utility bill will be smaller
 - No PF (reactive power) penalty
- Your circuit capacity increases
 - Reduce power losses
 - Reduce overheating and premature failure of motors and other inductive equipment.

Power Factor Penalty Example

- **Real Power = 500 kW**
- **Apparent Power = 625 kVA**
- **Power Factor = 500 kW/625 kVA = 0.80 = 80%**
- **Billable kW @ 90 % = 90/90 X \$14 X 500kW = \$7,000**
- **Billable kW @ 80 % = 90/80 X \$14 X 500 kW = \$7,875**
- **Reactive Power charge = \$7,875 - X \$7,000 = \$875**

ELECTRIC CHARGES

Contract 195708

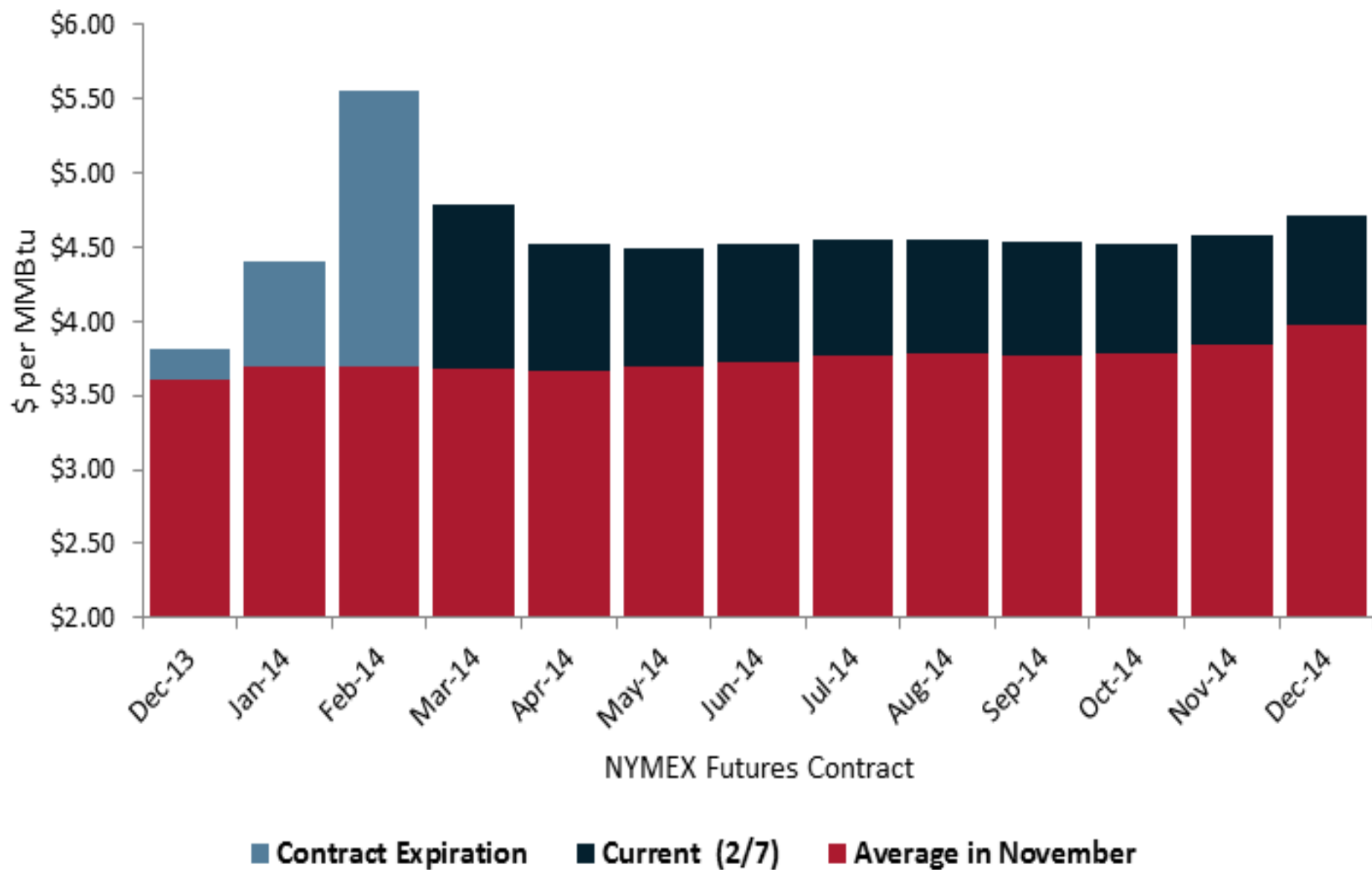
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Power Factor Expenditure Analysis

- Consult KDE Facility Branch
- Confirm existing PF consistently \leq 90 percent
- Third-party engineering/financial analysis
 - Power losses for each facility
 - Claimed power loss savings
 - Payback period.
- Require detail proof and support for claimed savings
- Require detail example of post installation performance calculations

Natural Gas Pricing



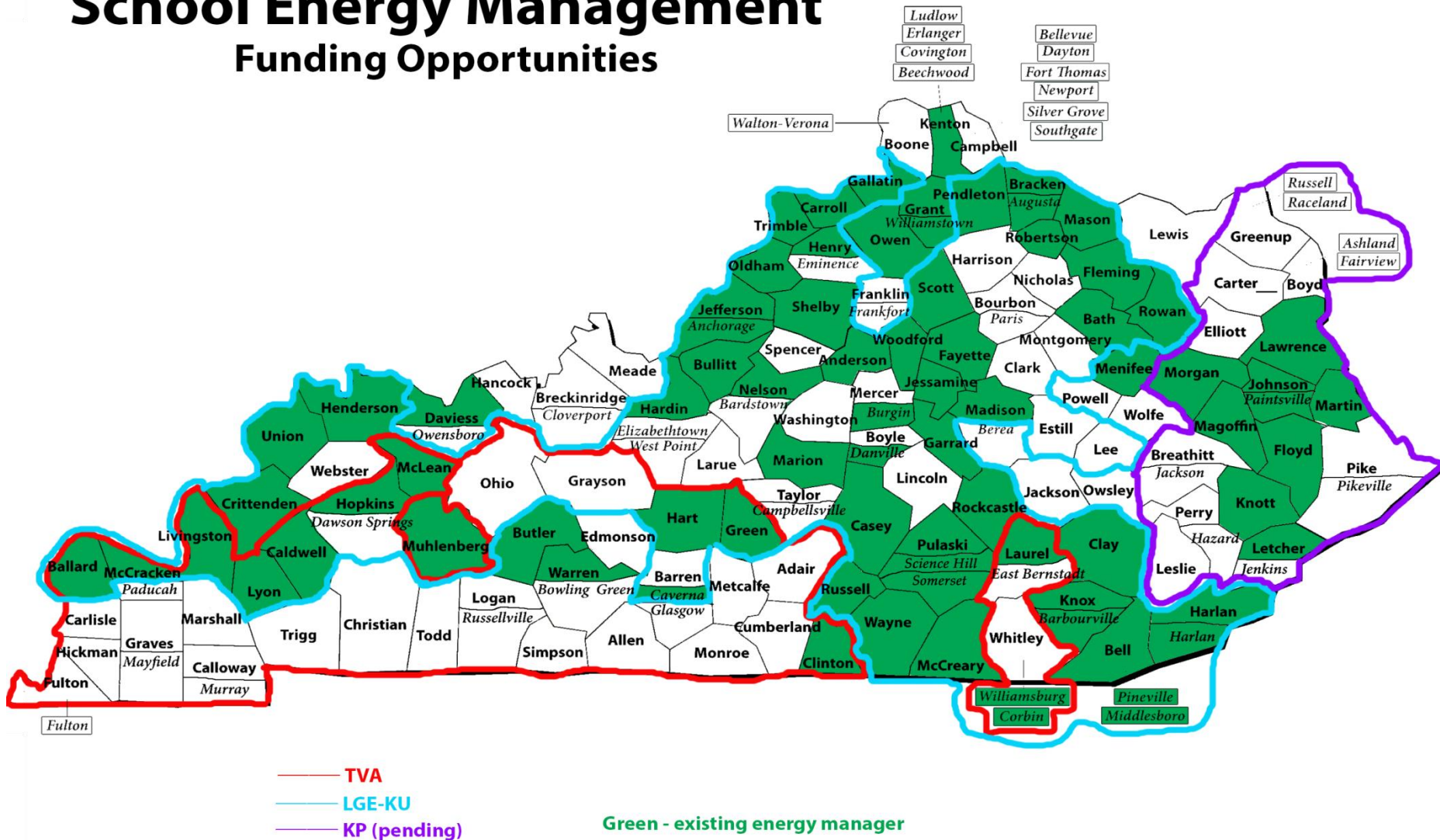
CURRENT FUNDING

FY 2014 - FY 2016

- \$700,000 - State (TVA Mitigation) Grant
 - FY2014 & FY2015: 50% Salary Match
- \$1,450,000 - LGE-KU Program
 - FY2014: 50 % Salary Match
 - FY2015: 25 % Salary Match
- Pending \$400,000 – AEP-KP Program
 - FY2015: 50 % Salary Match
 - FY2016: 50 % Salary Match



School Energy Management Funding Opportunities



Dr. Len Peters, Secretary Energy and Environment Cabinet



“School district administrators have been faced with increasingly tough challenges! Among the most serious is how to deliver quality education with reduced budgets. In the past few years, school energy managers have proven to be a valuable resource to school districts across the Commonwealth. They have shown how energy efficiency is an effective tool to save precious dollars that can be returned to the classroom.”

STATUTORY REQUIREMENTS

➤ **KRS 160.325 – School Energy Management**

- Develop & Implement Energy Management Plan
- Annual Report to Board & Legislative Research Commission

➤ **KRS 157.455 – Highly Efficient Buildings**

- Meet or Exceed Efficiency Standards
- Use Life-Cycle Analysis in Proposal Evaluation
- Consider Net-Zero Construction

BOARD POLICY 05.23

- **District Level Committee**
 - Develop & Implement Energy Management Plan
 - Track & Monitor Progress Managing & Reducing Costs
- **Superintendent Annually Reports to DEDI & LRC**
- **Year-end Report to Board**

Energy Management Process

