



SUPPLEMENTAL INVESTOR INFORMATION

Third Quarter 2009

Michael Cline
VP Investor Relations & Treasurer
816-556-2622
michael.cline@kcpl.com

Ellen Fairchild
Director Investor Relations
816-556-2083
ellen.fairchild@kcpl.com

NOTE:

The financial data and statistics in this document reflect the financial position and operating results of Great Plains Energy, its electric utility segment and Kansas City Power & Light Company (KCP&L) and KCP&L Greater Missouri Operations Company (GMO), its utility subsidiaries, through September 30, 2009. The financial data reflect GMO results subsequent to its July 14, 2008, acquisition by Great Plains Energy. Independent auditors have not audited any of the financial and operating statements. This document has been prepared primarily for security analysts and investors in the hope that it will serve as a convenient and useful reference document. The format of this document may change in the future as we continue to try to meet the needs of security analysts and investors. This document is not intended for use in connection with any sale, offer to sell, or solicitation of any offer to buy securities.

GREAT PLAINS ENERGY INCORPORATED
Consolidated Statements of Income
(Unaudited)

	Three Months Ended		Year to Date	
	September 30		September 30	
	2009	2008	2009	2008
Operating Revenues	(millions, except per share amounts)			
Electric revenues	\$ 587.7	\$ 593.6	\$ 1,487.4	\$ 1,226.2
Operating Expenses				
Fuel	118.1	109.7	302.5	222.7
Purchased power	46.1	69.3	140.9	138.3
Utility operating expenses	121.6	109.9	338.9	262.2
Maintenance	31.5	30.9	105.4	89.5
Depreciation and amortization	77.9	65.4	220.3	166.4
General taxes	38.4	37.4	106.8	96.2
Other	2.9	1.4	10.2	10.6
Total	436.5	424.0	1,225.0	985.9
Operating income	151.2	169.6	262.4	240.3
Non-operating income	12.7	7.6	37.4	22.5
Non-operating expenses	(0.7)	(2.7)	(2.9)	(5.2)
Interest charges	(49.0)	(23.6)	(133.2)	(75.6)
Income from continuing operations before income tax expense and loss from equity investments	114.2	150.9	163.7	182.0
Income tax expense	(35.6)	(45.9)	(26.3)	(68.4)
Loss from equity investments, net of income taxes	(0.2)	(0.3)	(0.4)	(1.1)
Income from continuing operations	78.4	104.7	137.0	112.5
Income (loss) from discontinued operations, net of income taxes	0.8	0.3	(2.3)	35.0
Net income	79.2	105.0	134.7	147.5
Less: Net income attributable to noncontrolling interest	(0.1)	-	(0.2)	-
Net income attributable to Great Plains Energy	79.1	105.0	134.5	147.5
Preferred stock dividend requirements	0.4	0.4	1.2	1.2
Earnings available for common shareholders	\$ 78.7	\$ 104.6	\$ 133.3	\$ 146.3
Average number of basic common shares outstanding	134.6	113.8	127.5	95.3
Average number of diluted common shares outstanding	134.9	113.9	127.6	95.3
Basic earnings (loss) per common share				
Continuing operations	\$ 0.57	\$ 0.92	\$ 1.07	\$ 1.17
Discontinued operations	0.01	-	(0.02)	0.37
Basic earnings per common share	\$ 0.58	\$ 0.92	\$ 1.05	\$ 1.54
Diluted earnings (loss) per common share				
Continuing operations	\$ 0.57	\$ 0.92	\$ 1.06	\$ 1.17
Discontinued operations	0.01	-	(0.02)	0.37
Diluted earnings per common share	\$ 0.58	\$ 0.92	\$ 1.04	\$ 1.54
Cash dividends per common share	\$ 0.2075	\$ 0.415	\$ 0.6225	\$ 1.245

The Notes to the Consolidated Financial Statements in the Company's Quarterly Report on Form 10-Q for the period ended September 30, 2009, should be read in conjunction with this financial information.

GREAT PLAINS ENERGY INCORPORATED
Consolidated Balance Sheets
(Unaudited)

	September 30 2009	December 31 2008
ASSETS		
(millions, except share amounts)		
Current Assets		
Cash and cash equivalents	\$ 16.5	\$ 61.1
Funds on deposit	5.4	10.8
Receivables, net	230.2	242.3
Fuel inventories, at average cost	90.1	87.0
Materials and supplies, at average cost	115.4	99.3
Deferred refueling outage costs	8.1	12.4
Refundable income taxes	19.1	26.0
Deferred income taxes	33.7	28.6
Assets held for sale	16.8	16.3
Derivative instruments	1.3	4.8
Prepaid expenses	10.2	15.2
Total	<u>546.8</u>	<u>603.8</u>
Nonutility Property and Investments		
Affordable housing limited partnerships	13.4	13.9
Nuclear decommissioning trust fund	109.7	96.9
Other	41.1	41.1
Total	<u>164.2</u>	<u>151.9</u>
Utility Plant, at Original Cost		
Electric	8,766.4	7,940.8
Less-accumulated depreciation	3,714.4	3,582.5
Net utility plant in service	<u>5,052.0</u>	<u>4,358.3</u>
Construction work in progress	1,408.4	1,659.1
Nuclear fuel, net of amortization of \$123.6 and \$110.8	71.1	63.9
Total	<u>6,531.5</u>	<u>6,081.3</u>
Deferred Charges and Other Assets		
Regulatory assets	805.5	824.8
Goodwill	169.0	156.0
Derivative instruments	8.3	13.0
Other	40.5	38.5
Total	<u>1,023.3</u>	<u>1,032.3</u>
Total	<u>\$ 8,265.8</u>	<u>\$ 7,869.3</u>

The Notes to the Consolidated Financial Statements in the Company's Quarterly Report on Form 10-Q for the period ended September 30, 2009, should be read in conjunction with this financial information.

GREAT PLAINS ENERGY INCORPORATED
Consolidated Balance Sheets
(Unaudited)

	September 30 2009	December 31 2008
LIABILITIES AND CAPITALIZATION		
(millions, except share amounts)		
Current Liabilities		
Notes payable	\$ 156.0	\$ 204.0
Commercial paper	38.0	380.2
Current maturities of long-term debt	70.1	70.7
Accounts payable	231.1	418.0
Accrued taxes	84.2	27.7
Accrued interest	71.2	72.4
Accrued compensation and benefits	39.4	29.7
Pension and post-retirement liability	4.7	4.7
Derivative instruments	-	86.2
Other	37.8	43.8
Total	<u>732.5</u>	<u>1,337.4</u>
Deferred Credits and Other Liabilities		
Deferred income taxes	368.1	387.1
Deferred tax credits	132.2	105.5
Asset retirement obligations	131.2	124.3
Pension and post-retirement liability	465.3	445.6
Regulatory liabilities	233.9	209.4
Other	143.3	112.8
Total	<u>1,474.0</u>	<u>1,384.7</u>
Capitalization		
Great Plains Energy common shareholders' equity		
Common stock-250,000,000 shares authorized without par value		
135,534,441 and 119,375,923 shares issued, stated value	2,311.2	2,118.4
Retained earnings	542.1	489.3
Treasury stock-243,407 and 120,677 shares, at cost	(6.3)	(3.6)
Accumulated other comprehensive loss	(49.1)	(53.5)
Total	<u>2,797.9</u>	<u>2,550.6</u>
Noncontrolling interest	1.2	1.0
Total common shareholders' equity	<u>2,799.1</u>	<u>2,551.6</u>
Cumulative preferred stock \$100 par value		
3.80% - 100,000 shares issued	10.0	10.0
4.50% - 100,000 shares issued	10.0	10.0
4.20% - 70,000 shares issued	7.0	7.0
4.35% - 120,000 shares issued	12.0	12.0
Total	<u>39.0</u>	<u>39.0</u>
Long-term debt	<u>3,221.2</u>	<u>2,556.6</u>
Total	<u>6,059.3</u>	<u>5,147.2</u>
Commitments and Contingencies		
Total	<u>\$ 8,265.8</u>	<u>\$ 7,869.3</u>

The Notes to the Consolidated Financial Statements in the Company's Quarterly Report on Form 10-Q for the period ended September 30, 2009, should be read in conjunction with this financial information.

GREAT PLAINS ENERGY INCORPORATED
Consolidated Statements of Cash Flows
(Unaudited)

Year to Date September 30	2009	2008
Cash Flows from Operating Activities		(millions)
Net income	\$ 134.7	\$ 147.5
Adjustments to reconcile income to net cash from operating activities:		
Depreciation and amortization	220.3	169.7
Amortization of:		
Nuclear fuel	12.8	10.0
Other	(8.0)	2.2
Deferred income taxes, net	(4.8)	27.4
Investment tax credit amortization	(1.7)	(1.3)
Loss from equity investments, net of income taxes	0.4	1.1
Fair value impacts from energy contracts - Strategic Energy	-	(189.1)
Fair value impacts from interest rate hedging	-	9.2
Loss on sale of Strategic Energy	-	116.2
Other operating activities	(91.9)	33.1
Net cash from operating activities	<u>261.8</u>	<u>326.0</u>
Cash Flows from Investing Activities		
Utility capital expenditures	(683.6)	(702.3)
Allowance for borrowed funds used during construction	(28.4)	(20.3)
Payment to Black Hills for asset sale working capital adjustment	(7.7)	-
Proceeds from sale of Strategic Energy, net of cash sold	-	216.4
GMO acquisition, net cash received	-	271.9
Purchases of nuclear decommissioning trust investments	(36.1)	(35.1)
Proceeds from nuclear decommissioning trust investments	33.4	32.4
Other investing activities	(2.5)	(9.8)
Net cash from investing activities	<u>(724.9)</u>	<u>(246.8)</u>
Cash Flows from Financing Activities		
Issuance of common stock	217.9	8.3
Issuance of long-term debt	700.5	354.5
Issuance fees	(22.7)	(4.5)
Repayment of long-term debt	(2.0)	(169.2)
Net change in short-term borrowings	(390.2)	(174.1)
Dividends paid	(82.0)	(122.2)
Credit facility termination fees	-	(12.5)
Other financing activities	(3.0)	(2.3)
Net cash from financing activities	<u>418.5</u>	<u>(122.0)</u>
Net Change in Cash and Cash Equivalents	(44.6)	(42.8)
Cash and Cash Equivalents at Beginning of Year (includes \$43.1 million of cash included in assets of discontinued operations in 2008)	<u>61.1</u>	<u>67.1</u>
Cash and Cash Equivalents at End of Period	\$ 16.5	\$ 24.3

The Notes to the Consolidated Financial Statements in the Company's Quarterly Report on Form 10-Q for the period ended September 30, 2009, should be read in conjunction with this financial information.

Great Plains Energy Incorporated
(Unaudited)

Electric Utility Operating Income

	Three Months Ended		Year to Date	
	September 30		September 30	
	2009	2008	2009	2008
	(millions)			
Operating revenues	\$ 587.7	\$ 593.6	\$ 1,487.4	\$ 1,226.2
Fuel	(118.1)	(109.7)	(302.5)	(222.7)
Purchased power	(46.1)	(70.3)	(140.9)	(139.3)
Other operating expenses	(191.1)	(179.4)	(550.5)	(447.1)
Depreciation and amortization	(77.9)	(65.4)	(220.3)	(166.4)
Operating income	<u>\$ 154.5</u>	<u>\$ 168.8</u>	<u>\$ 273.2</u>	<u>\$ 250.7</u>

Electric Utility Revenues

	Three Months Ended			Year to Date		
	September 30		%	September 30		%
	2009	2008	Change	2009	2008	Change*
	(millions)			(millions)		
Retail revenues						
Residential	\$ 243.3	\$ 243.3	NM	\$ 594.2	\$ 448.7	NM
Commercial	219.0	215.5	NM	569.4	459.0	NM
Industrial	48.9	49.0	NM	128.5	102.7	NM
Other retail revenues	3.9	3.9	NM	12.3	9.0	NM
Fuel recovery mechanism under (over) recovery	12.3	(6.5)	NM	26.8	10.8	NM
Total retail	<u>527.4</u>	<u>505.2</u>	NM	<u>1,331.2</u>	<u>1,030.2</u>	NM
Wholesale revenues	49.4	77.9	NM	123.1	175.7	NM
Other revenues	10.9	10.5	NM	33.1	20.3	NM
Electric utility revenues	<u>\$ 587.7</u>	<u>\$ 593.6</u>	NM	<u>\$ 1,487.4</u>	<u>\$ 1,226.2</u>	NM

Electric Utility MWh Sales

	Three Months Ended			Year to Date		
	September 30		%	September 30		%
	2009	2008	Change	2009	2008	Change*
	(thousands)			(thousands)		
Retail MWh sales						
Residential	2,401	2,459	NM	6,621	5,020	NM
Commercial	2,780	2,818	NM	8,035	6,563	NM
Industrial	824	855	NM	2,348	1,882	NM
Other retail MWh sales	26	27	NM	86	62	NM
Total retail	<u>6,031</u>	<u>6,159</u>	NM	<u>17,090</u>	<u>13,527</u>	NM
Wholesale MWh sales	1,708	1,756	NM	3,962	3,839	NM
Electric utility MWh sales	<u>7,739</u>	<u>7,915</u>	NM	<u>21,052</u>	<u>17,366</u>	NM

* NM - not meaningful due to GMO numbers only reflected subsequent to the July 14, 2008 date of acquisition.

Electric Utility Customers at September 30, 2009

Residential	722,800
Commercial	95,900
Industrial	2,300
Other	400
Total retail customers	<u>821,400</u>

Kansas City Power & Light Company
(Unaudited)

KCP&L Operating Income

	Three Months Ended September 30		Year to Date September 30	
	2009	2008	2009	2008
	(millions)			
Operating revenues	\$ 395.5	\$ 423.7	\$ 997.8	\$ 1,056.3
Fuel	(70.5)	(79.6)	(183.3)	(192.6)
Purchased power	(19.8)	(31.3)	(58.6)	(100.3)
Other operating expenses	(140.0)	(133.5)	(400.8)	(401.2)
Depreciation and amortization	(59.3)	(51.4)	(166.1)	(152.4)
Operating income	<u>\$ 105.9</u>	<u>\$ 127.9</u>	<u>\$ 189.0</u>	<u>\$ 209.8</u>

KCP&L Revenues

	Three Months Ended September 30		%	Year to Date September 30		%
	2009	2008		Change	2009	
	(millions)			(millions)		
Retail revenues	\$ 152.8	\$ 163.4	(7)	\$ 365.5	\$ 368.8	(1)
Residential	156.9	160.5	(2)	409.8	404.0	1
Commercial	31.0	31.4	(1)	81.2	85.1	(5)
Industrial	2.7	2.7	(1)	7.9	7.8	-
Other retail revenues	(0.3)	(11.8)	(98)	1.2	5.5	(79)
Kansas ECA under (over) recovery	<u>343.1</u>	<u>346.2</u>	(1)	<u>865.6</u>	<u>871.2</u>	(1)
Total retail	47.3	72.4	(35)	117.8	170.2	(31)
Wholesale revenues	5.1	5.1	(4)	14.4	14.9	(4)
Other revenues	<u>\$ 395.5</u>	<u>\$ 423.7</u>	(1)	<u>\$ 997.8</u>	<u>\$ 1,056.3</u>	(6)
KCP&L revenues						

KCP&L MWh Sales

	Three Months Ended September 30		%	Year to Date September 30		%
	2009	2008		Change	2009	
	(thousands)			(thousands)		
Retail MWh sales	1,486	1,634	(9)	4,001	4,195	(5)
Residential	1,971	2,082	(5)	5,687	5,827	(2)
Commercial	508	542	(6)	1,418	1,569	(10)
Industrial	20	22	(2)	64	57	12
Other retail MWh sales	<u>3,985</u>	<u>4,280</u>	(7)	<u>11,170</u>	<u>11,648</u>	(4)
Total retail	1,642	1,630	1	3,816	3,713	3
Wholesale MWh sales	<u>5,627</u>	<u>5,910</u>	(5)	<u>14,986</u>	<u>15,361</u>	(2)
KCP&L electric MWh sales						

KCP&L Customers at September 30, 2009

Residential	449,300
Commercial	57,700
Industrial	2,100
Other	100
Total retail customers	<u>509,200</u>

KCP&L Statistics

	Three Months Ended September 30		Year to Date September 30	
	2009	2008	2009	2008
Average non-firm wholesale price per MWh	\$ 27.50	\$ 47.77	\$ 29.06	\$ 48.35
Cooling degree days	670	820	1,090	1,175
Heating degree days	N/A	N/A	3,057	3,513
Equivalent availability - coal plants	86 %	92 %	75 %	81 %
Capacity factor - coal plants	79 %	88 %	69 %	77 %
Equivalent availability - nuclear	93 %	100 %	96 %	77 %
Capacity factor - nuclear	95 %	100 %	98 %	77 %

KCP&L Greater Missouri Operations Company
Utility Operations
(Unaudited)

GMO Utility Operating Income

	Three Months Ended		Year to Date	
	September 30		September 30	
	2009	2008	2009	2008
	(millions)			
Operating revenues	\$ 192.2	\$ 169.9	\$ 489.6	\$ 169.9
Fuel	(47.6)	(30.1)	(119.2)	(30.1)
Purchased power	(26.3)	(39.0)	(82.3)	(39.0)
Other operating expenses	(51.1)	(45.9)	(149.7)	(45.9)
Depreciation and amortization	(18.6)	(14.0)	(54.2)	(14.0)
Operating income	\$ 48.6	\$ 40.9	\$ 84.2	\$ 40.9

GMO Utility Revenues

	Three Months Ended		%	Year to Date		%
	September 30			September 30		
	2009	2008	Change	2009	2008	Change*
	(millions)			(millions)		
Retail revenues	\$ 90.5	\$ 79.9	NM	\$ 228.7	\$ 79.9	NM
Residential	62.1	55.0	NM	159.6	55.0	NM
Commercial	17.9	17.6	NM	47.3	17.6	NM
Industrial	1.2	1.2	NM	4.4	1.2	NM
Other retail revenues	12.6	5.3	NM	25.6	5.3	NM
Fuel recovery mechanism under (over) recovery	184.3	159.0	NM	465.6	159.0	NM
Total retail	2.1	5.5	NM	5.3	5.5	NM
Wholesale revenues	5.8	5.4	NM	18.7	5.4	NM
Other revenues	\$ 192.2	\$ 169.9	NM	\$ 489.6	\$ 169.9	NM
Total revenues						

GMO Utility MWh Sales

	Three Months Ended		%	Year to Date		%
	September 30			September 30		
	2009	2008	Change	2009	2008	Change*
	(thousands)			(thousands)		
Retail MWh sales	915	825	NM	2,620	825	NM
Residential	809	736	NM	2,348	736	NM
Commercial	316	313	NM	930	313	NM
Industrial	6	5	NM	22	5	NM
Other retail MWh sales	2,046	1,879	NM	5,920	1,879	NM
Total retail	66	126	NM	146	126	NM
Wholesale MWh sales	2,112	2,005	NM	6,066	2,005	NM
Electric MWh sales						

* NM - not meaningful due to GMO numbers only reflected subsequent to the July 14, 2008 date of acquisition.

GMO Utility Customers at September 30, 2009

Residential	273,500
Commercial	38,200
Industrial	200
Other	300
Total retail customers	312,200

GMO Utility Statistics

	Three Months Ended		Year to Date	
	September 30		September 30	
	2009	2008	2009	2008
Cooling degree days	670	820	1,090	1,175
Heating degree days	N/A	N/A	3,057	3,513
Equivalent availability - coal plants	91 %	94	81 %	N/A
Capacity factor - coal plants	74 %	76	69 %	N/A