

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549**

FORM 8-K

Current Report

**Pursuant to Section 13 or 15(d) of the
Securities Exchange Act of 1934**

Date of Report (Date of earliest event reported): August 8, 2011

Commission File Number	Exact Name of Registrant as Specified in its Charter, State of Incorporation, Address of Principal Executive Offices and Telephone Number	I.R.S. Employer Identification No.
001-32206	GREAT PLAINS ENERGY INCORPORATED (A Missouri Corporation) 1200 Main Street Kansas City, Missouri 64105 (816) 556-2200 NOT APPLICABLE (Former name or former address, if changed since last report)	43-1916803
000-51873	KANSAS CITY POWER & LIGHT COMPANY (A Missouri Corporation) 1200 Main Street Kansas City, Missouri 64105 (816) 556-2200 NOT APPLICABLE (Former name or former address, if changed since last report)	44-0308720

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

This combined Current Report on Form 8-K is being furnished by Great Plains Energy Incorporated (Great Plains Energy) and Kansas City Power & Light Company (KCP&L). KCP&L is a wholly-owned subsidiary of Great Plains Energy and represents a significant portion of its assets, liabilities, revenues, expenses and operations. Thus, all information contained in this report relates to, and is furnished by, Great Plains Energy. Information that is specifically identified in this report as relating solely to Great Plains Energy, such as its financial statements and all information relating to Great Plains Energy's other operations, businesses and subsidiaries, including KCP&L Greater Missouri Operations Company (GMO), does not relate to, and is not furnished by, KCP&L. KCP&L makes no representation as to that information. Neither Great Plains Energy nor GMO has any obligation in respect of KCP&L's debt securities and holders of such securities should not consider Great Plains Energy's or GMO's financial resources or results of operations in making a decision with respect to KCP&L's debt securities. Similarly, KCP&L has no obligation in respect of securities of Great Plains Energy or GMO.

Item 7.01 Regulation FD Disclosure

On August 8, 2011, Great Plains Energy will host an investment community meeting in New York, New York. In connection with this meeting, Great Plains Energy will also participate in meetings with investors on August 8 -9, 2011. A copy of the investor handout used in such meetings is attached as Exhibit 99.1 hereto. The investor handout contains information regarding KCP&L. Accordingly, information in the investor handout relating to KCP&L is also being furnished on behalf of KCP&L.

The information under this Item 7.01 and in Exhibit 99.1 hereto is being furnished and shall not be deemed "filed" for the purposes of Section 18 of the Securities Exchange Act of 1934, as amended or otherwise subject to the liabilities of that section. The information under this Item 7.01 and Exhibit 99.1 hereto shall not be deemed incorporated by reference into any registration statement or other document pursuant to the Securities Act of 1933, as amended, unless otherwise expressly indicated in such registration statement or other document.

Item 9.01 Financial Statements and Exhibits

(d) Exhibits

<u>Exhibit No.</u>	<u>Description</u>
99.1	Investor presentation slides

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrants have duly caused this report to be signed on their behalf by the undersigned hereunto duly authorized.

GREAT PLAINS ENERGY INCORPORATED

/s/ Ellen E. Fairchild
Ellen E. Fairchild
Vice President, Corporate Secretary and Chief
Compliance Officer

KANSAS CITY POWER & LIGHT COMPANY

/s/ Ellen E. Fairchild
Ellen E. Fairchild
Vice President, Corporate Secretary and Chief
Compliance Officer

Date: August 8, 2011

Exhibit Index

<u>Exhibit No.</u>	<u>Description</u>
99.1	Investor presentation slides

Great Plains Energy



2011 Analyst Meeting

August 8, 2011

Forward-Looking Statement

Statements made in this presentation that are not based on historical facts are forward-looking, may involve risks and uncertainties, and are intended to be as of the date when made. Forward-looking statements include, but are not limited to, the outcome of regulatory proceedings, cost estimates of capital projects and other matters affecting future operations. In connection with the safe harbor provisions of the Private Securities Litigation Reform Act of 1995, Great Plains Energy and KCP&L are providing a number of important factors that could cause actual results to differ materially from the provided forward-looking information. These important factors include: future economic conditions in regional, national and international markets and their effects on sales, prices and costs, including but not limited to possible further deterioration in economic conditions and the timing and extent of economic recovery; prices and availability of electricity in regional and national wholesale markets; market perception of the energy industry, Great Plains Energy and KCP&L; changes in business strategy, operations or development plans; effects of current or proposed state and federal legislative and regulatory actions or developments, including, but not limited to, deregulation, re-regulation and restructuring of the electric utility industry; decisions of regulators regarding rates the companies can charge for electricity; adverse changes in applicable laws, regulations, rules, principles or practices governing tax, accounting and environmental matters including, but not limited to, air and water quality; financial market conditions and performance including, but not limited to, changes in interest rates and credit spreads and in availability and cost of capital and the effects on nuclear decommissioning trust and pension plan assets and costs; impairments of long-lived assets or goodwill; credit ratings; inflation rates; effectiveness of risk management policies and procedures and the ability of counterparties to satisfy their contractual commitments; impact of terrorist acts; ability to carry out marketing and sales plans; weather conditions including, but not limited to, weather-related damage and their effects on sales, prices and costs; cost, availability, quality and deliverability of fuel; the inherent uncertainties in estimating the effects of weather, economic conditions and other factors on customer consumption and financial results; ability to achieve generation goals and the occurrence and duration of planned and unplanned generation outages; delays in the anticipated in-service dates and cost increases of additional generation, transmission, distribution or other projects; the inherent risks associated with the ownership and operation of a nuclear facility including, but not limited to, environmental, health, safety, regulatory and financial risks; workforce risks, including, but not limited to, increased costs of retirement, health care and other benefits; and other risks and uncertainties.

This list of factors is not all-inclusive because it is not possible to predict all factors. Other risk factors are detailed from time to time in Great Plains Energy's and KCP&L's quarterly reports on Form 10-Q and annual report on Form 10-K filed with the Securities and Exchange Commission. Each forward-looking statement speaks only as of the date of the particular statement. Great Plains Energy and KCP&L undertake no obligation to publicly update or revise any forward-looking statement, whether as a result of new information, future events or otherwise.

Today's Agenda

Part 1 – Introduction

9:00 – 9:05 a.m.

- Review of Agenda
 - Michael W. Cline, VP Investor Relations and Treasurer

Part 2 – CEO Welcome

9:05 – 9:10 a.m.

- Opening Comments
- Introduction of GXP Senior Leadership Team Attendees
 - Michael J. Chesser, Chairman and CEO

Part 3 – Review of 2011 Second Quarter

9:10 – 9:30 a.m.

- Regulatory and Operations
 - Terry Bassham, President and COO
- Financial Results
 - James C. Shay, SVP, Finance and Strategic Development and CFO

Today's Agenda

Part 4 – “GXP: Transformed, Focused and Looking Ahead”

9:30 – 11:00 a.m.

- Overview – Mr. Chesser
- Operations and Regulatory Strategy – Mr. Bassham
 - Environmental
 - Renewable Energy and Energy Efficiency
 - Transmission
 - Plant Operations
 - Regulatory
 - State of the Service Territory / Demand and Load Growth
- Financial Strategy – Mr. Shay
 - 2011 and 2012 EPS Guidance / 2013 Drivers
 - Capital Expenditures and Rate Base
 - Dividends
 - Cash Flow and Financing Strategy
- Concluding Thoughts – Mr. Chesser

Part 5 – Q&A

11:00 – 11:30 a.m.

- Moderated by Mr. Chesser



PART 2

CEO Welcome



Welcome

Michael J. Chesser
Chairman and CEO



PART 3

Review of 2011 Second Quarter



Terry Bassham
President and COO

Operations and Regulatory Update

- Customer Consumption
- Plant Performance
- Customer Satisfaction Survey Results
- LaCygne Predetermination Filing
- GMO Rate Case – Recent Developments

Customer Consumption

Retail MWh Sales and Customer Growth Rates

	2Q 2011 Compared to 2Q 2010				YTD 2011 Compared to YTD 2010 ³			
	Total Change in MWh Sales	Weather-Normalized			Total Change in MWh Sales	Weather-Normalized		
		Customers	Use / Customer	Change MWh Sales		Customers	Use / Customer	Change MWh Sales
Residential	(0.4%)	0.2%	(1.8%)	(1.6%)	(2.4%)	0.1%	(4.0%)	(4.0%)
Commercial	(3.4%)	0.4%	(0.5%)	(0.1%)	(2.4%)	0.4%	(1.3%)	(0.9%)
Industrial	(3.9%)	(0.9%)	(1.4%)	(2.3%)	(2.0%)	(0.9%)	(0.3%)	(1.2%)
	(2.5%)	0.2% ¹	(1.1%) ¹	(0.8%) ¹	(2.3%)	0.1% ¹	(2.1%) ^{1,2}	(2.0%) ^{1,2}

¹Weighted average

² Drivers contributing to the portion of the YTD decline that occurred in 1Q11 may have included a) switching to natural gas heat; b) conversion to more efficient heat pumps; c) conservation among KCP&L KS customers on an all-electric rate triggered by a substantial rate increase for this rate class in KCP&L's 2010 KS rate case; and d) continued challenges in the local economy

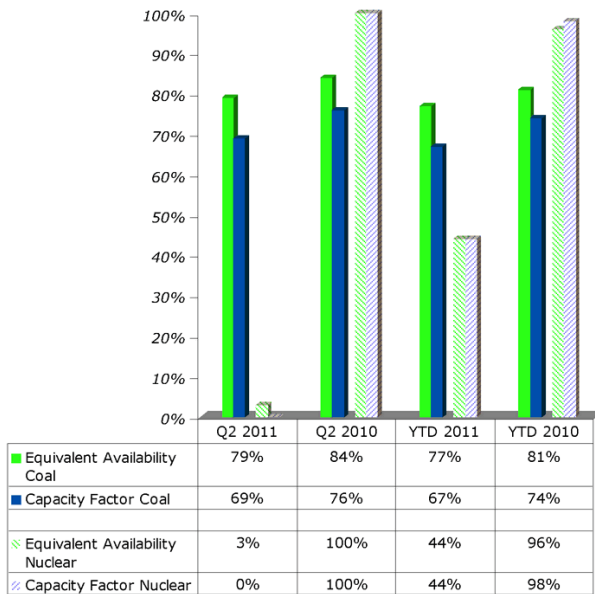
Statistics by Customer Class YTD 2011³

	Customers	Revenue (in millions)	Sales (000s of MWhs)	% of Retail MWh Sales
Residential	725,800	\$418.7	4,413	39%
Commercial	96,500	405.2	5,219	46%
Industrial	2,300	91.7	1,594	14%

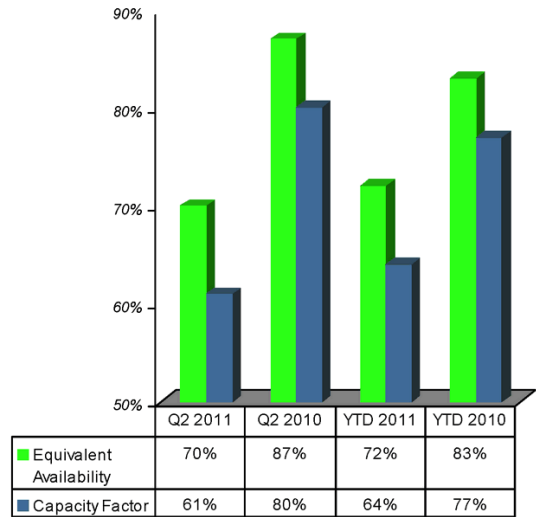
³ As of June 30

Plant Performance

Coal and Nuclear

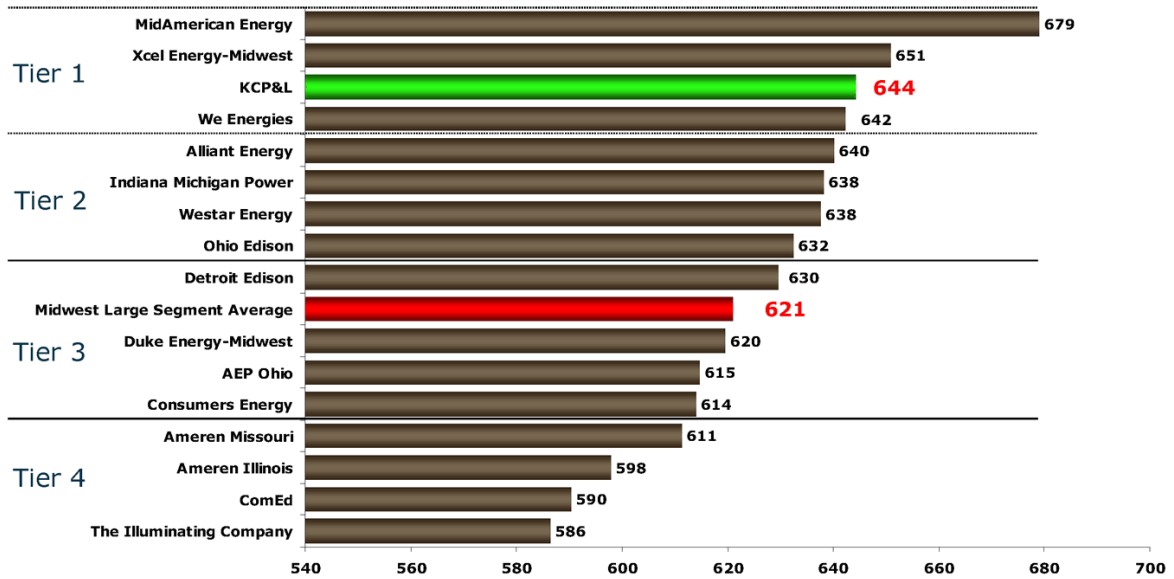


Combined Fleet



Customer Satisfaction

J.D. Power and Associates
2011 Electric Utility Residential Customer Satisfaction StudySM
Midwest Region: Large Segment



Source: J.D. Power and Associates 2011 Electric Utility Residential Customer Satisfaction StudySM

Kansas Predetermination Filing Update

Coal Unit	MW	SCR	Scrubber	Baghouse	Other Particulate Control	Mercury Controls	Cooling Tower
LaCygne 1	368 ^(a)	✓	✓(b)	▲	✓(c)	▲	◆
LaCygne 2	341 ^(a)	▲	▲	▲	✓(d)	▲	◆

(a) KCP&L's share of jointly-owned facility
 (b) LaCygne 1 currently has a scrubber installed; however, 2011-13 capital expenditure plan includes the installation of a new scrubber on the unit
 (c) Existing scrubber removes particulate matter but will be replaced by the baghouse
 (d) Existing precipitator will be replaced by the baghouse
 ✓ Installed
 ▲ Installation of this equipment is scheduled to begin during the period covered by the 2011-2013 capital expenditure plan
 ◆ Not installed

- KCP&L filed with KCC in February for predetermination of environmental retrofits at LaCygne 1 and 2 with total project cost of \$1.23 billion; KCP&L's total share is \$615 million and Kansas jurisdictional share is \$281 million
- Filing includes KCP&L's request for a LaCygne project-specific rider
- Interveners include KCC Staff, Westar, Citizens' Utility Ratepayers Board ("CURB"), Sierra Club, Great Plains Alliance for Clean Energy ("GPACE"), Kansas Industrial Consumers Group ("KIC")
- Hearings conducted in July; KCC order expected in August 2011

GMO Rate Case – Recent Developments

- Rates effective June 25, 2011
 - \$7.7 million of the L&P division's \$29.8 million increase deferred and phased-in over a two-year period, plus carrying costs
 - MPSC to determine carrying cost methodology; hearing scheduled for October 2011
- Crossroads Energy Center rate base and related transmission expense disallowance
 - No impairment recognized
 - GMO appealing in Cole County Circuit Court



2011 Second Quarter Financial Overview

James C. Shay
SVP, Finance & Strategic
Development and CFO

2011 Quarterly and Year-to-Date EPS Reconciliation Versus 2010

	2010 EPS	2011 EPS	Decrease in EPS
1Q	\$0.15	\$0.01	\$0.14
2Q	\$0.47	\$0.31	\$0.16
Year To Date	\$0.61	\$0.32	\$0.29

Contributors to Lower 2011 EPS Compared to 2010

	Special Factors	Weather & WN Demand	Lag	Other	Total
1Q 2011	\$0.07	\$0.03	\$0.04		\$0.14
2Q 2011	\$0.06	\$0.04	\$0.02	\$0.04	\$0.16
Year To Date	\$0.13	\$0.07	\$0.06	\$0.03	\$0.29

Note: Numbers may not add due to the effect of dilutive shares on EPS

**Great Plains Energy Consolidated Earnings
and Earnings Per Share - Three Months Ended June 30**
(Unaudited)

	Earnings (in Millions)		Earnings per Share	
	2011	2010	2011	2010
Electric Utility	\$ 49.0	\$ 71.7	\$ 0.35	\$ 0.53
Other	(5.6)	(7.3)	(0.04)	(0.06)
Net income	43.4	64.4	0.31	0.47
Less: Net income attributable to noncontrolling interest	0.0	(0.1)	-	-
Net income attributable to Great Plains Energy	43.4	64.3	0.31	0.47
Preferred dividends	(0.4)	(0.4)	-	-
Earnings available for common shareholders	\$ 43.0	\$ 63.9	\$ 0.31	\$ 0.47

- Electric Utility's net income decreased \$22.7 million including a \$14.5 million decrease in gross margin*
- Common stock outstanding for the quarter averaged 138.9 million shares, about 2 percent higher than the same period in 2010

*Gross margin a non-GAAP measure that is defined and reconciled to GAAP operating revenues in Appendix A

**Great Plains Energy Consolidated Earnings
and Earnings Per Share – Year to Date June 30**
(Unaudited)

	Earnings (in Millions)		Earnings per Share	
	2011	2010	2011	2010
Electric Utility	\$ 56.0	\$ 96.6	\$ 0.40	\$ 0.71
Other	(10.3)	(11.9)	(0.07)	(0.09)
Net income	45.7	84.7	0.33	0.62
Less: Net (income) loss attributable to noncontrolling interest	0.1	(0.1)	-	-
Net income attributable to Great Plains Energy	45.8	84.6	0.33	0.62
Preferred dividends	(0.8)	(0.8)	(0.01)	(0.01)
Earnings available for common shareholders	\$ 45.0	\$ 83.8	\$ 0.32	\$ 0.61

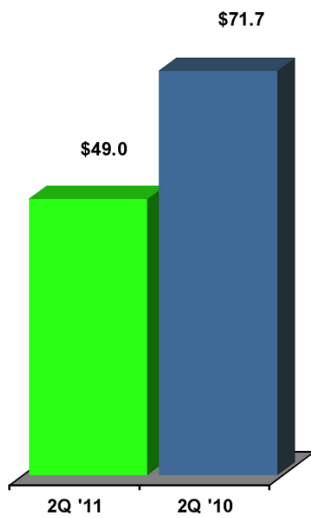
- Electric Utility's net income decreased \$40.6 million including a \$22.9 million decrease in gross margin*
- Common stock outstanding for the year to date averaged 138.6 million shares, about 1 percent higher than the same period in 2010

*Gross margin a non-GAAP measure that is defined and reconciled to GAAP operating revenues in Appendix A

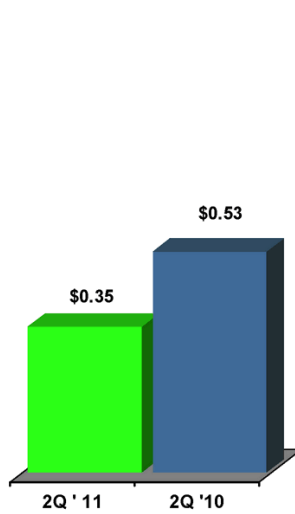
Electric Utility Second Quarter Results

Key Earnings Drivers

Earnings (in Millions)



Earnings Per Share



\$13.4M Pre-tax



Decreased depreciation and amortization
 • Lower regulatory amortization

\$10.8M



Decreased income tax expense
 • Lower pre-tax income



\$15.5M Pre-tax

Increased other operating expenses
 • O&M and property taxes related to Iatan 2
 • Pension expense



\$14.5M Pre-tax

Decreased gross margin*
 • Extended Wolf Creek outage
 • Unfavorable weather
 • Higher coal transportation costs
 • Lower weather-normalized demand
 • Above factors partially offset by new KCP&L retail rates



\$10.0M Pre-tax

Decreased non-operating income and expenses
 • Lower AFUDC equity

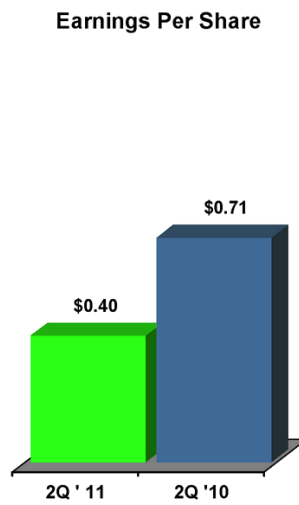
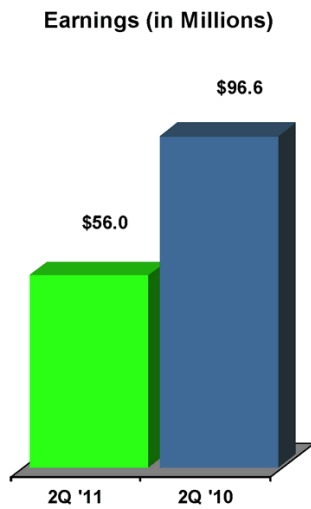


\$3.0M Pre-tax

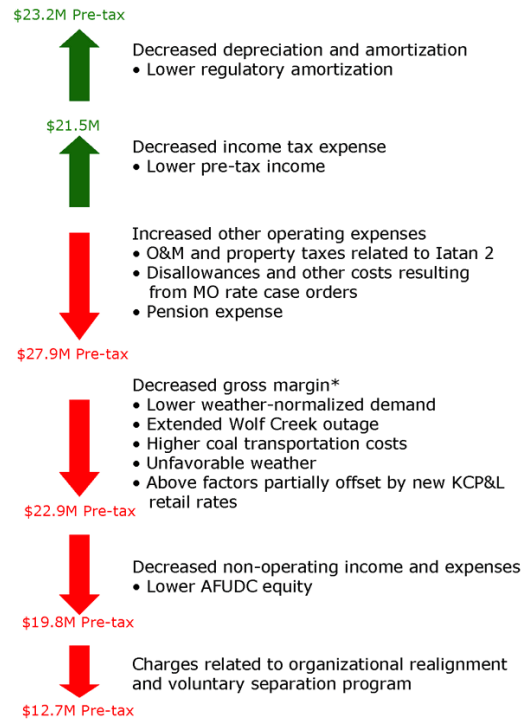
Charges related to organizational realignment and voluntary separation program

*Gross margin is a non-GAAP measure that is defined and reconciled to GAAP operating revenues in Appendix A

Electric Utility Year to Date Results



Key Earnings Drivers



*Gross margin is a non-GAAP measure that is defined and reconciled to GAAP operating revenues in Appendix A

Debt Profile as of June 30, 2011

Great Plains Energy Debt

(\$ in millions)	KCP&L		GMO ⁽¹⁾		GPE		Consolidated	
	Amount	Rate ⁽²⁾	Amount	Rate ⁽²⁾	Amount	Rate ⁽²⁾	Amount	Rate ⁽²⁾
Short-term debt	\$ 571.7	0.51%	\$ 65.0	2.94%	\$ 27.0	2.94%	\$ 663.7	0.85%
Long-term debt ⁽³⁾	1,667.4	6.22%	658.0	10.96%	986.7	6.61%	3,312.1	7.24%
Total	\$2,239.1	4.76%	\$723.0	10.21%	\$1,013.7	6.51%	\$3,975.8	6.17%

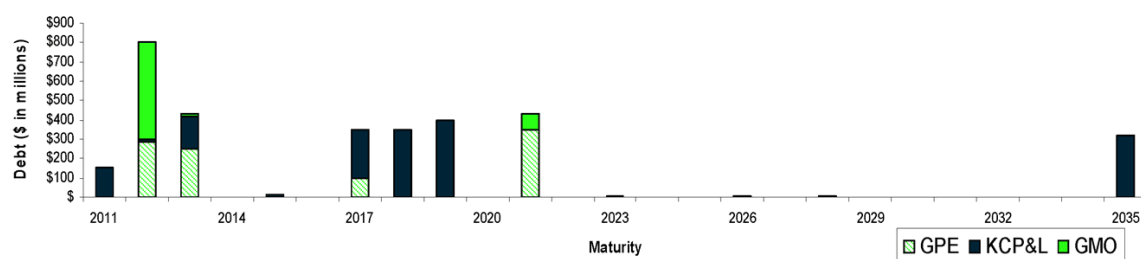
Secured debt = \$748.7 (19%), Unsecured debt = \$3,227.1 (81%)

⁽¹⁾ GPE guarantees substantially all of GMO's debt

⁽²⁾ Weighted Average Rates – excludes premium / discounts and fair market value adjustments; includes full Equity Units coupon (12%) for GPE

⁽³⁾ Includes current maturities of long-term debt

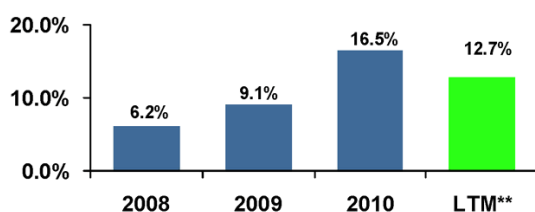
Long-Term Debt Maturities ⁽⁴⁾



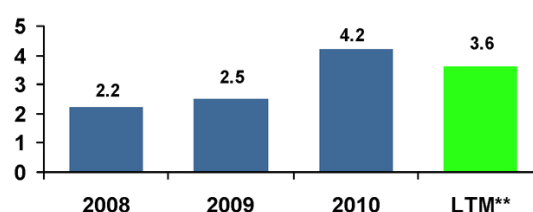
⁽⁴⁾ 2013 reflects mode maturity for \$167.6 million of KCP&L tax-exempt bonds subject to remarketing prior to final maturity date

Credit Profile for Great Plains Energy

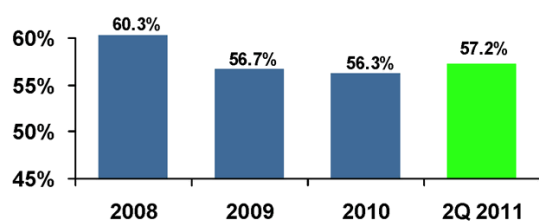
FFO / Adjusted Debt*



FFO Interest Coverage*



Adjusted Debt / Total Adjusted Capitalization*



Current Credit Ratings

	Moody's	Standard & Poor's
Great Plains Energy		
Outlook	Stable	Stable
Corporate Credit Rating	-	BBB
Preferred Stock	Ba2	BB+
Senior Unsecured Debt	Baa3	BBB-
KCP&L		
Outlook	Stable	Stable
Senior Secured Debt	A3	BBB+
Senior Unsecured Debt	Baa2	BBB
Commercial Paper	P-2	A-2
GMO		
Outlook	Stable	Stable
Senior Unsecured Debt	Baa3	BBB

* All ratios calculated using Standard and Poor's methodology. Ratios are non-GAAP measures that are defined and reconciled to GAAP in Appendix A

** Last twelve months as of June 30, 2011



PART 4







“GXP: Transformed, Focused and Looking Ahead”



Overview

Michael J. Chesser
Chairman and CEO

GXP's Transformation: 2005 - Present

2005	2006	2007	2008	2009	2010	2011
<p>Begin LaCygne 1 environmental retrofit</p> <p>Start Spearville, Kan., 100-MW wind project</p> 	<p>Complete rate cases Missouri: \$50.6M increase; Kansas: \$29M increase</p> <p>Receive 2006 Edison Electric Institute's (EEI) Advocacy Excellence Award</p> <p>Complete Spearville wind project on time and on budget</p> <p>Commence Iatan 1 and 2 projects</p>	<p>Complete rate cases Missouri: \$35.3M increase; Kansas: \$26M increase</p> <p>Sign Collaboration Agreement with the Sierra Club and Concerned Citizens of Platte County</p> <p>Receive EEI Edison Award – EEI's highest honor for distinguished leadership, innovation and contribution to the advancement of the electric industry</p> <p>Complete LaCygne SCR project on time and on budget</p>  	<p>Sell non-regulated subsidiary Strategic Energy</p>  <p>Acquire Aquila, adding over 300,000 Missouri utility customers and 2,000 MW of generation assets</p> <p>Receive 2008 ReliabilityOne™ Plains Region Reliability Excellence Award for delivering reliable electric service to customers</p>	<p>Complete rate cases Missouri: \$159M increase; Kansas: \$59M increase</p> <p>Receive 2009 ReliabilityOne™ Plains Region Reliability Excellence Award</p> <p>Earn Tier 1 customer satisfaction ranking among large Midwest utilities in J.D. Power survey</p> <p>Complete Iatan 1 environmental project and unit overhaul</p> 	<p>Complete rate case Kansas: \$22M increase</p> <p>Receive 2010 ReliabilityOne™ Plains Region Reliability Excellence Award</p>  <p>Earn Tier 1 customer satisfaction ranking among large Midwest utilities in J.D. Power survey</p> <p>Bring Iatan 2 online and into service</p> <p>Complete Spearville 2 48-MW wind project</p>	<p>Complete rate cases Missouri: \$100.3M increase</p> <p>Conclude Comprehensive Energy Plan</p> <p>Create streamlined organization essential to future success through organizational realignment and Voluntary Separation Program</p> <p>Earn Tier 1 customer satisfaction ranking among large Midwest utilities in J.D. Power survey for third year in a row</p>

GXP's Transformation: 2005 - Present

Rate Base



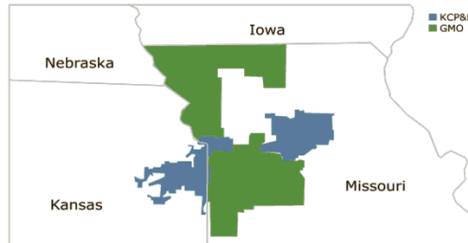
2005 - \$2.12 Billion
2010 - \$5.59 Billion
INCREASE = 164%

T&D Route-Miles



2005 - 14,400
2010 - 25,600
INCREASE = 78%

Customers



2005 - 500,000
2010 - 823,200
INCREASE = 65%

Utility Employees



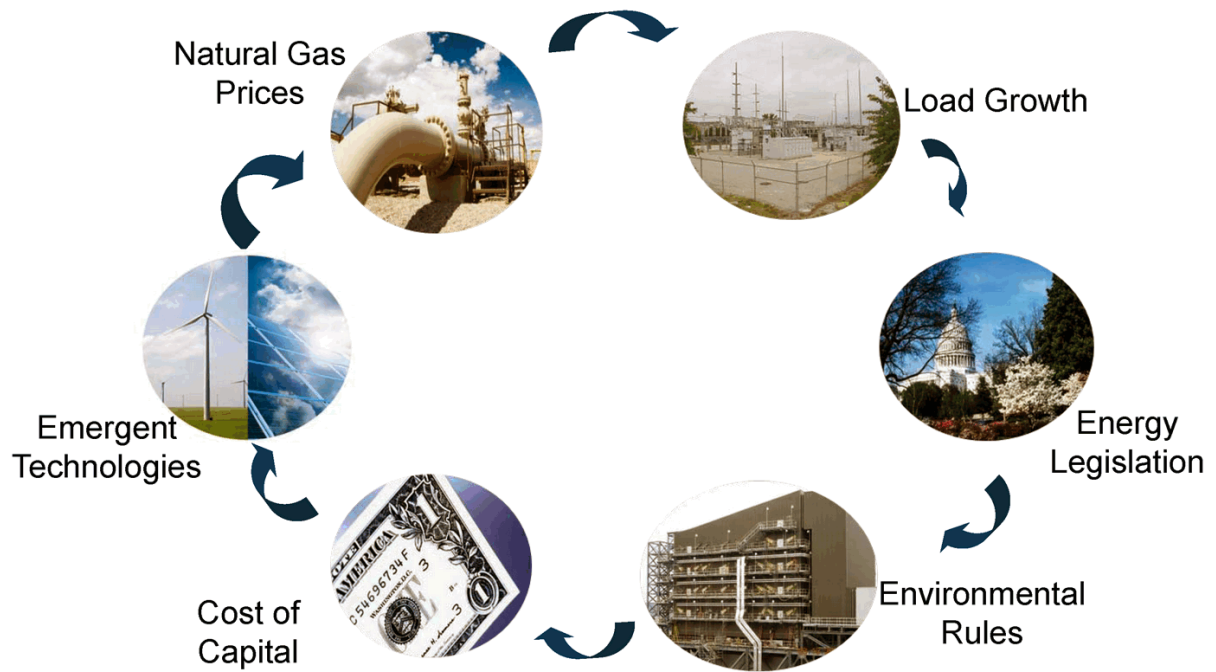
2005 - 2,382
2010 - 3,188
INCREASE = 34%

Base Load Generation



2005 - 2,788 MW
2010 - 4,345 MW
INCREASE = 56%

Drivers of Industry Change



We are Intensely Focused on GXP's Keys to Future Success.....

Implement Strategies to Minimize Regulatory Lag

Generate Sustainable Improvement in Credit Metrics

Demonstrate Financial Discipline Through O&M Control and Prudent Capital Allocation

Maintain Strong Emphasis on Regulatory Processes and Relationships

Achieve Excellence in Generation and T&D Operations

Identify Growth Opportunities That Fit Core Competencies

Deliver Exceptional Customer Satisfaction

....Which Will Deliver Value to Shareholders

Earnings Growth

Expected Through Reduced Regulatory Lag, Disciplined Cost Management and Long-Term Rate Base Growth



Competitive Dividend

Goal to Maintain Competitive Dividend While Strengthening Key Credit Metrics; Objective to Grow Dividend In Line With Payout Ratio Targets

Objective: Improved Total Shareholder Returns

GXP – A Compelling Investment Thesis

Focused on Shareholder Value Creation

- Target significant reduction in regulatory lag
- Seek to deliver earnings growth and increasing and sustainable cash dividends as a key component of Total Shareholder Return (“TSR”)
- Priority to improve / stabilize key credit metrics

Attractive Platform for Long-Term Growth

- **Environmental** – additional ~\$1 billion of “High Likelihood” capital projects planned to comply with existing / proposed environmental rules
- **Transmission** – additional \$0.4 billion of capital additions planned
- **Renewables** – driven by Collaboration Agreement and MO/KS RPS; potential capital additions if attractive equity financing is available
- **Other Growth Opportunities** – selective future initiatives that will leverage our core strengths

Diligent Regulatory Approach

- Proven track record of constructive regulatory treatment
- Credibility with regulators in terms of planning and execution of large, complex projects
- Competitive retail rates on a regional and national level supportive of potential future investment

Excellent Relationships with Key Stakeholders

- **Customers** - Tier 1 customer satisfaction
- **Suppliers** – strategic supplier alliances focused on long-term supply chain value
- **Employees** - strong relations between management and labor (3 IBEW locals)
- **Communities** - leadership, volunteerism and high engagement in the areas we serve



Operations and Regulatory Strategy

Terry Bassham
President and COO

Topics

- Environmental
- Renewable Energy and Energy Efficiency
- Transmission
- Plant Operations
- Regulatory
- State of the Service Territory / Demand and Load Growth



Environmental

Key Themes - Environmental

1. Estimated cost of compliance with current / proposed legislation = approximately \$1 billion:
 - LaCygne
 - Unit 1 (368 MW*) – scrubber and baghouse - 2015
 - Unit 2 (341 MW*) – full Air Quality Control System (“AQCS”) – 2015
 - Montrose 3 (176 MW) – full AQCS – 2016 (approx.)
 - Sibley 3 (364 MW) – scrubber and baghouse – 2016
2. Other retrofits less likely and therefore not included in estimated cost of compliance:
 - Montrose 1 and 2 (total capacity 334 MW)
 - Sibley 1 and 2 (total capacity 102 MW)
 - Lake Road 4 and 6 (99 MW)

*KCP&L's share of jointly-owned facility

Emissions Control Equipment – Coal Fleet

Coal Unit	MW	SCR	Scrubber	Bag House	Other Particulate Control	Mercury Controls	Cooling Tower
Iatan 1	621 ^(a)	✓	✓	✓	✓	✓	◇
Iatan 2	618 ^(a)	✓	✓	✓	✓	✓	✓
LaCygne 1	368 ^(a)	✓	✓ (b)	▲	✓ (c)	▲	◇
LaCygne 2	341 ^(a)	▲	▲	▲	✓ (d)	▲	◇
Hawthorn 5	563	✓	✓	✓	✓	◇	◇
Sibley 1 and 2	102	◇(e)	◇	◇	✓	◇	◇
Sibley 3	364	✓	▲	▲	✓	◇	◇
Montrose 1, 2 and 3	510	▲◇(f)	▲◇(f)	▲◇(f)	✓	◇	◇
Lake Road 4	99	◇	◇	◇	✓	◇	◇
Jeffrey Energy Center 1, 2 and 3	173 ^(a)	▲◇(g)	✓	◇	✓	◇	✓

Following anticipated scrubber installation at LaCygne 2, Sibley 3 and Montrose 3, roughly 86 percent of the installed coal capacity would have scrubbers – remaining 14% of installed capacity is currently considered "Less Likely" for retrofit

- (a) KCP&L's share of jointly-owned facility
- (b) LaCygne 1 currently has a scrubber installed; however, 2011-2013 capital expenditure plan includes the installation a new scrubber on the unit
- (c) Existing scrubber removes particulate matter; a baghouse is expected to be installed
- (d) Existing precipitator will be replaced by a baghouse
- (e) Sibley 1 and 2 both have selective noncatalytic reduction systems ("SNCRS") installed
- (f) Planned for Unit 3 only
- (g) Planned for Unit 1 only
- ✓ Installed
- ▲ Installation planned
- ◇ Not installed

Environmental

- Estimated cost of approximately \$1 billion (excluding AFUDC and property tax) to comply with current and proposed rules:
 - Currently-effective CAIR (to be replaced by the Cross-State Air Pollution Rule in 2012) and BART
 - Industrial Boiler MACT
 - Proposed Utility Boiler MACT
 - SO₂ NAAQS
- Estimated cost reflects three “high likelihood” projects; depending on final requirements, other projects are possible but are currently considered “less likely”
- “High Likelihood” projects:
 - KCP&L
 - Retrofit of LaCygne 1 & 2 (KCP&L’s capacity share – 709 MW)
 - To comply with KDHE consent decree to achieve BART compliance for LaCygne by 6/1/15
 - Unit 1 – Wet scrubber, baghouse, activated carbon injection
 - Unit 2 – Selective Catalytic Reduction system (“SCR”), wet scrubber, baghouse, activated carbon injection, over-fired air, low NO_x burners

Environmental

- KCP&L (continued)
 - LaCygne Retrofit (continued)
 - KCP&L's share of cost estimated at \$615 million
 - » 3-year capex plan in 2010 10-K included \$63 million, \$171 million, and \$195 million in 2011, 2012 and 2013, respectively, for the project
 - Assuming KCC authorizes predetermination by August 22, construction is expected to commence shortly thereafter
 - Retrofit of Montrose 3 (Capacity – 176 MW)
 - Assumes compliance by approximately 2016 under the proposed Utility Boiler MACT and potential future ozone rules
 - Possibly a wet scrubber or other SO₂ control options, Selective Non-Catalytic Reduction system, baghouse, activated carbon injection

- GMO
 - Retrofit of Sibley 3 (Capacity – 364 MW)
 - Assumes compliance by 2016 under the proposed Utility Boiler MACT
 - Possibly a wet scrubber or other SO₂ control options, baghouse, activated carbon injection
 - \$24 million included in 2010 10-K capex plan (2013)

Environmental

- “Less Likely” projects:
 - KCP&L
 - Retrofit of Montrose 1 & 2 (combined capacity – 334 MW)
 - Assuming no retrofit, expected closure of units would be 2016 - 2018
 - GMO
 - Retrofit of Sibley 1 & 2 (combined capacity – 102 MW)
 - Assuming no retrofit, expected closure of units would be in 2016 - 2018
 - Retrofit of Lake Road 4 and 6 (combined capacity – 99 MW)
 - Assuming no retrofit, expected closure of would be 2016 - 2018
- Any capacity and/or energy requirements resulting from decision not to proceed with “Less Likely” projects expected to be met through (1) renewable energy additions required under Missouri and Kansas Renewable Portfolio Standards; (2) demand side management programs; (3) construction of combustion turbines and/or combined cycle units; and/or (4) purchased power agreements



Renewable Energy and Energy Efficiency

Key Themes – Renewable Energy and Energy Efficiency

1. Future renewable requirements driven by the following:
 - 2007 Collaboration Agreement with Sierra Club
 - Renewable Portfolio Standards (“RPS”) in Missouri and Kansas
2. Flexibility regarding acquisition of future renewable resources
 - Through Purchased Power Agreements (“PPAs”) and purchases of Renewable Energy Credits (“RECs”); or
 - Adding to rate base if supported by credit profile and availability of equity financing
3. Energy efficiency expected to be a key component of future resource portfolio
 - Aggressive pursuit planned with appropriate regulatory recovery

Current Renewable Energy Portfolio

KCP&L-Owned Wind Generation

- Spearville Wind Energy Facility
 - 100.5 MW capacity completed in 2006
- Spearville 2 Wind Energy Facility
 - 48 MW capacity completed in 4Q 2010
 - Not yet included in KCP&L's KS jurisdictional rate base

KCP&L Wind PPA

- Cimarron, KS
 - 131 MW to be completed in 2012

KCP&L-Owned RECs

- 24 MW Wind for 2011
- 4.5 MW Solar for 2011

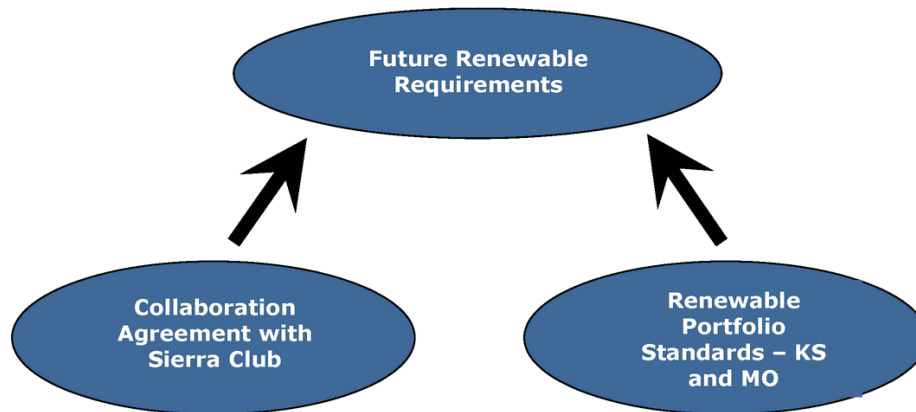
GMO Wind PPA

- Gray County, KS
 - 60 MW completed in 2001



Spearville Wind Energy Facility in Western Kansas

Drivers of Future Renewable Energy Needs

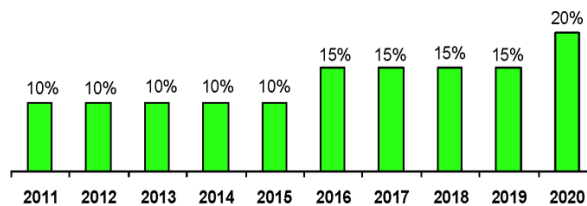


- 2007 Agreement
 - KCP&L pledged to add 100 MW of wind (beyond initial 100.5 MW at Spearville) by end of 2010 and 300 MW by end of 2012, subject to regulatory approval
 - 48 MW built in 2010 and 52 MW of RECs purchased for 2010 applied to 2010 commitment; 48 MW and recent 131 MW PPA apply toward 2012 commitment
 - Refreshed recent RFP to evaluate options for remaining 221 MW commitment
- RPS requirements are different in each state
 - Missouri requirements based upon retail energy sales and include solar needs
 - Kansas requirements based upon retail peak load

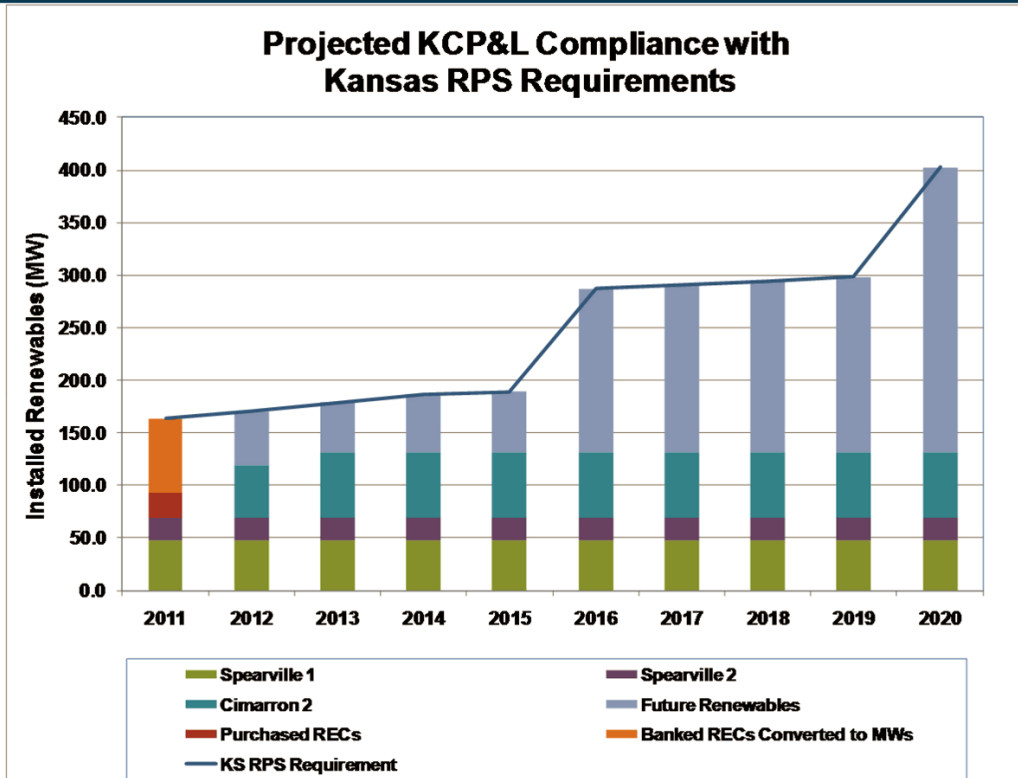
Renewable Portfolio Standards - Kansas

- KCP&L's Kansas jurisdiction required to have renewable energy generation capacity equal to at least 10% of three-year average Kansas peak retail demand beginning in 2011
 - Requirement increases to 15% in 2016 and 20% in 2020
 - Renewable resources include wind, solar, biomass, landfill gas and hydropower
 - Can be met with owned generation, PPAs or RECs
- KCP&L believes it has sufficient resources to comply with 2011 Kansas requirements using banked RECs, installed capacity and the purchase of 77,000 RECs (equivalent to 24 MW)

Kansas Annual Requirements

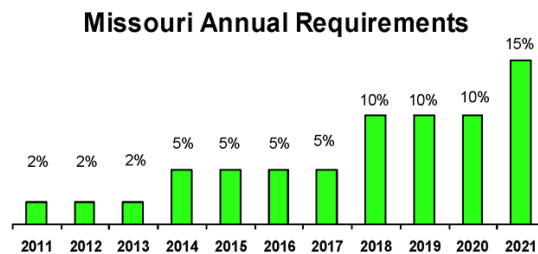


Renewable Portfolio Standards - Kansas

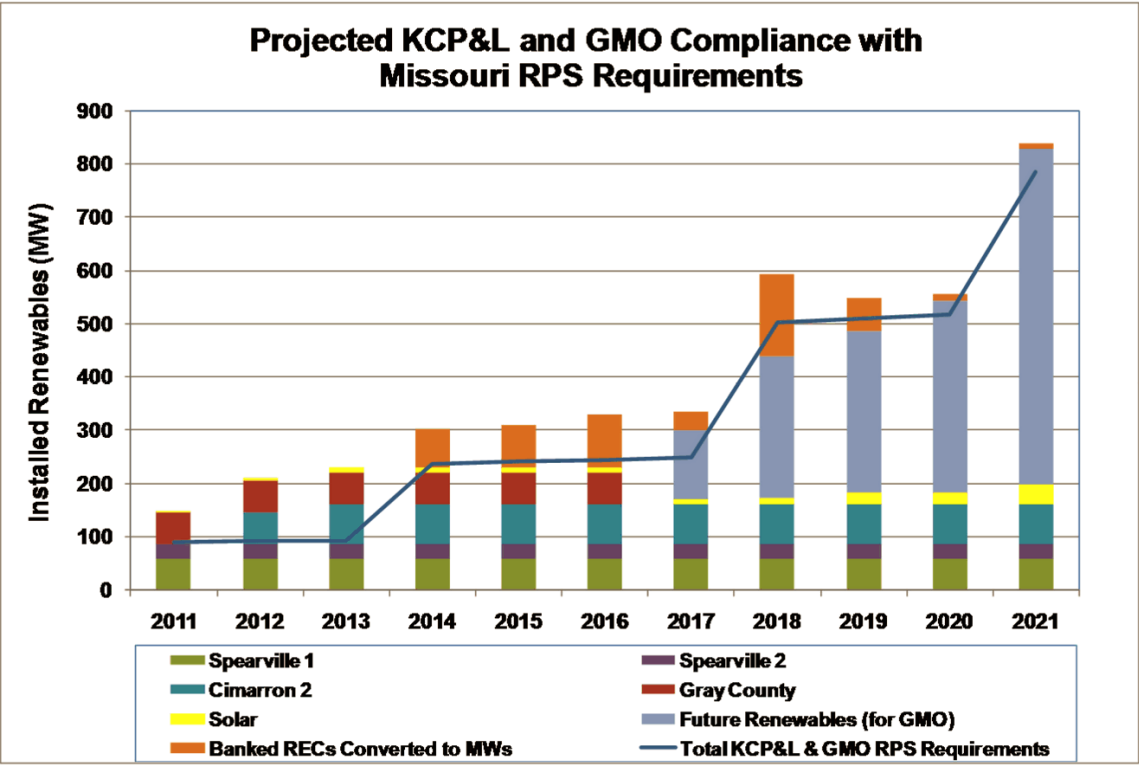


Renewable Portfolio Standards - Missouri

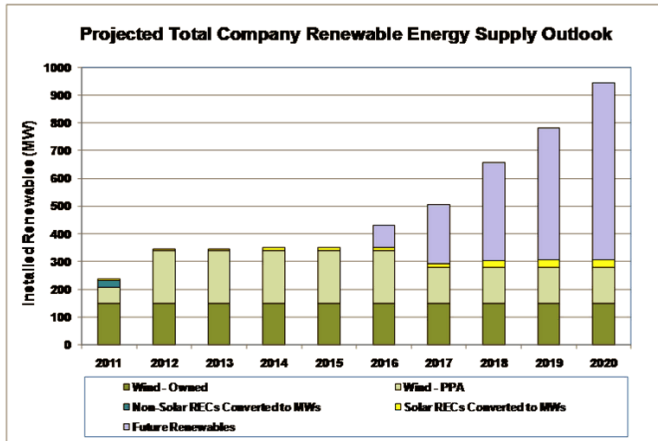
- Requirement for KCP&L's Missouri jurisdiction and GMO that at least 2% of electricity provided to retail customers comes from renewable resources beginning in 2011
 - Requirement increases to 5% in 2014, 10% in 2018 and 15% in 2021
 - Small portion required to come from solar resources
 - Renewable resources include wind, solar, biomass and hydropower
 - Can be met with owned generation, PPAs or RECs
- Spearville 1, Spearville 2 and Gray County PPA are expected to provide sufficient banked RECs and annually generated RECs to comply with Missouri non-solar requirements through 2016. The solar requirement in 2011 is anticipated to be met through solar RECs



Renewable Portfolio Standards - Missouri



Renewable Generation - Summary



Note: Chart does not include resources that may be added to meet 2012 Sierra Club commitment, subject to regulatory approval

Key Considerations

- Availability of Production Tax Credit (“PTC”)
- Pursuit of lowest cost resource dependent upon ownership vs. PPA market pricing
- Ownership also dependent upon availability of equity financing on attractive terms
- Ability to access transmission service in western Kansas is essential
- Issuance of RFP to evaluate options to meet Sierra Club commitment (subject to regulatory approval)

Risks

- Reduction or elimination of PTC creates uncertainty about future project costs
- Continued visibility of state RPS during period of slow economic growth
- Slowed pace of transmission investment increases potential for stranded assets

Current Energy Efficiency Portfolio

- Current energy efficiency portfolio started out of a series of pilot programs approved under the Comprehensive Energy Plan in 2005
 - Focused on developing programs that provide a lower cost alternative to traditional generation
 - Provides economic and environmental benefits to region
 - Since 2005, have worked to build customer and channel partner relationships that optimize program delivery channels
 - Programs have yielded nearly 205 MW of demand-side resource capability through year-end 2010
- Company estimates indicate 600 MW of cost-effective energy efficiency potential over the next ten years
 - Study underway to validate such potential



Energy Efficiency Policy Considerations

- While a significant amount of energy efficiency potential exists within our service territory, a supportive regulatory framework has yet to be implemented in either Missouri or Kansas

Missouri

- Strides have been made in Missouri with the passing of supportive legislation in 2009 that provides for:
 - Timely recovery of energy efficiency program costs
 - Alignment of financial incentives
 - Timely earnings opportunities
- Regulatory rules were developed in support of this legislation in 2010 and finalized in mid-2011

Kansas

- While similar legislation has not been passed in Kansas, several regulatory dockets have been advanced to evaluate the potential and enablers required for utility pursuit of energy efficiency
 - These dockets have also initiated a framework for energy efficiency investment in Kansas
- KCP&L committed to pursue an additional 300 MW of energy efficiency by 2012 in the 2007 Collaboration Agreement (subject to regulatory approval of appropriate recovery mechanism)

Energy Efficiency Strategy

- Given the potential for energy efficiency and the benefits of a diversified resource portfolio, energy efficiency remains a key part of our strategy to meet customer needs over the long-term
- We will, however, pursue such investments only under a regulatory framework that balances the interests of both customers and shareholders
 - Investments in energy efficiency must be treated comparably to traditional rate base investments
- Plan is to file for such regulatory treatment in Missouri by end of August 2011
 - Expect Commission ruling by year-end 2011
- During second half 2011, plan to also begin collaborative discussions with stakeholders toward pursuit of an acceptable regulatory recovery mechanism in Kansas

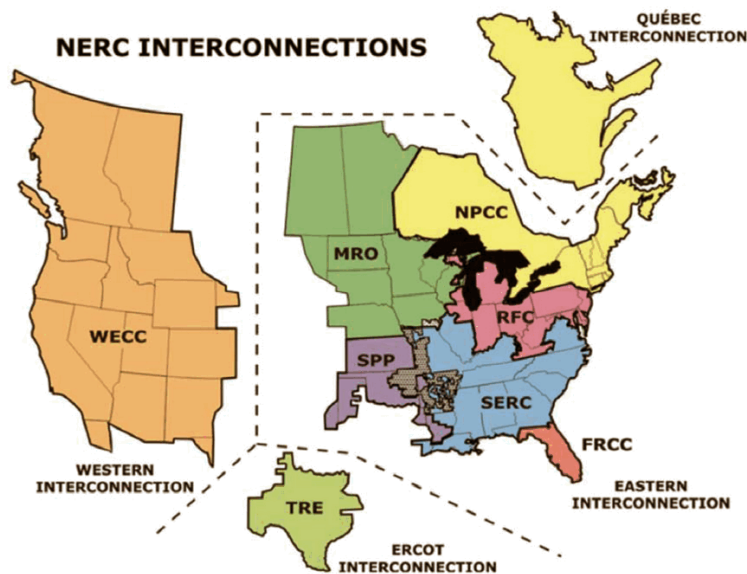


Transmission

Key Themes - Transmission

1. Two significant projects are currently in GXP's plans:
 - Iatan-Nashua 345kV line – Projected \$54M total cost and 2015 in-service date
 - Sibley-Maryville-Nebraska City 345kV line – Projected \$380M total cost and 2017 in-service date
2. Increasingly competitive environment requires consideration of strategic options
3. Flexibility is important – opportunity to pursue projects unilaterally but also preserve capital if needed through partnership

Transmission Overview



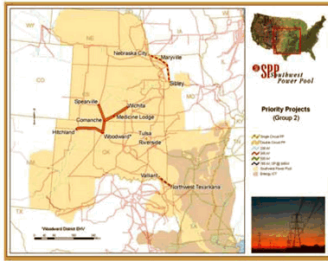
- KCP&L and GMO have approximately 3,400 circuit-miles of transmission lines within the combined service territory
 - Transmission in rate base of \$429 million represents about 7% of combined total rate base
- Member of the Southwest Power Pool ("SPP")

Regional Transmission Development

- In recent years, the SPP has taken aggressive steps to advance the development of the transmission system within the SPP region
 - Greater ability to connect emerging wind generation with the regional population centers
 - Improved reliability, lower congestion
- As a result, SPP has developed two sets of transmission projects: Balanced Portfolio & Priority Projects:



KCP&L / GMO
expect to
make \$430
million of
these
investments



- **SPP Balanced Portfolio**
 - Initial set of region-wide economic-based transmission plans
 - 7 projects; \$840M total investment
 - KCP&L's projects:
 - Iatan-Nashua 345kV, 30 miles, \$54M
 - 2011 – 2013 cap ex plan includes \$6M (in 2013)
 - Expected in-service: 2015
 - Swissvale-Stilwell tap 345kV, \$2M
 - Expected in-service: 2012
- **SPP Priority Projects**
 - Latest set of region-wide economic-based transmission plans
 - 6 projects; \$1.4B total investment
 - GMO's project:
 - Sibley-Maryville-Nebraska City 345kV, 170 miles, projected cost ~\$380M
 - 2011 – 2013 cap ex plan includes \$41M (in 2013)
 - Expected in-service date: 2017

Transmission Strategy

- As highlighted previously, KCP&L and GMO have approximately \$430 million of transmission investment projects planned over the next six years
 - These projects provide benefits for regional customers by lowering the cost of power and delivery of new renewable energy while also presenting opportunities for solid rate base growth within the KCP&L service territory
- Options for current and potential future projects consider the emerging competitive nature of transmission investments
 - Base plan is to pursue investment in these specific projects, however, partnership opportunities may exist that create greater value for both customers and investors
 - Will evaluate and pursue incremental strategies that create the greatest value for both KCP&L's customers and investors
 - Projects expected to be financed through a combination of internally generated funds and strategic short-term/long-term debt financing



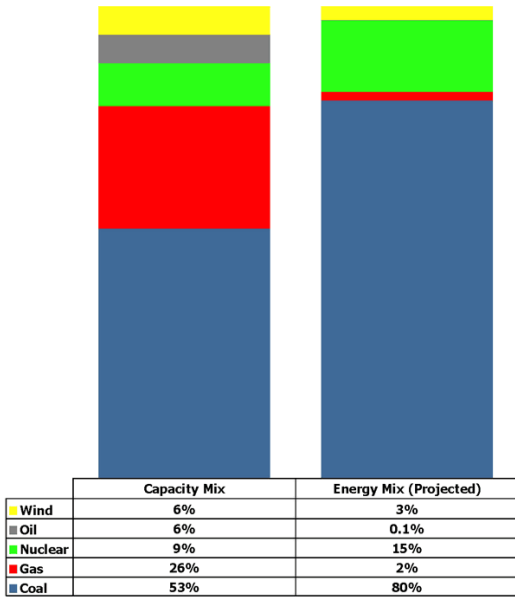
Plant Operations

Key Themes – Plant Operations

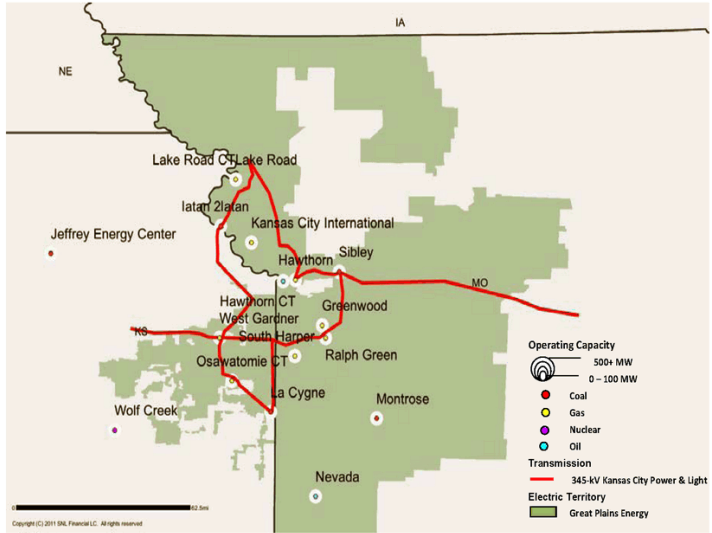
1. No additional baseload generation expected for several years
2. Targeting modest improvements in existing fleet performance in the coming years
3. No changes currently planned regarding nuclear's role in the portfolio

Generation Portfolio

Supply Portfolio
(2011)



Approximately 6,600 MW of Generation Capacity



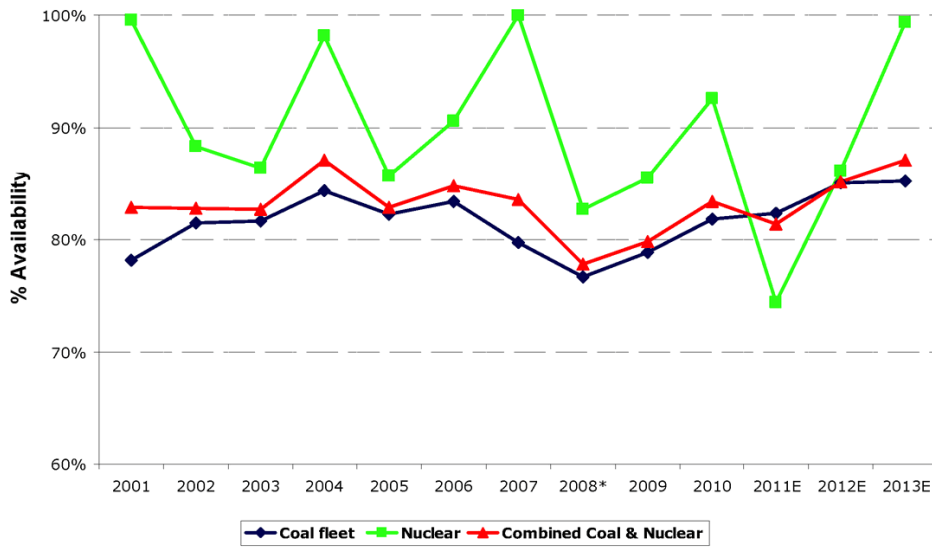
Note: Map excludes wind generation of 148 MW at Spearville Wind Energy Facility in western Kansas as well as 297 MW of natural gas peaking generation at the Crossroads Energy Center in northwest Mississippi

Generation Strategy

- Addition of Iatan 2 provides flexibility to evaluate complex cross-currents driving future capacity expansion before committing to a course of action
- Three-pronged approach to meet the future energy needs of our region
 1. Environmental Retrofits
 - Remaining uncontrolled coal plants may be environmentally retrofitted or retired/mothballed
 2. Diversified Generation Portfolio and Demand Side Management
 - Displaced generation from potential plant retirements anticipated to be replaced with gas generation, renewable energy, demand side management and energy efficiency programs and/or PPAs
 - Beyond compliance with Missouri and Kansas RPS, no additional capacity needs expected until 2016-2018
 3. Improved Fleet Availability
 - Benchmark fleet on a unit by unit basis; strategically deploy capital to improve unit availability

Fleet Availability

Equivalent Availability Factor ("EAF")



*KCP&L fleet only for 2001-2007; 2008 and after reflects combined Company results

Strategic initiative designed to improve the availability of our generating units began in 2009

Coal Fleet EAF Performance

- Historical
 - 2010 EAF (excluding Iatan 2) was approximately 82%, a three percentage point improvement over 2009 – our best performance since 2004
 - Implemented capital improvements to equipment to reduce repeated forced outages or load reductions
 - Replaced cyclones and furnace tube section at LaCygne 1
 - Replaced furnace tube section at Iatan 1
 - Installed economizer outlet sootblowers, replaced waterwall and furnace tube section at Sibley 3
- Strategies for Improvement
 - Benchmark fleet performance on a unit-by-unit basis
 - Plan to manage maintenance capital expenditures generally in line with depreciation while improving EAF to mid-80% range by deploying capital to areas of benefit
 - Deploying capital based on size of unit
 - Use benchmark data to strategically deploy capital to high risk areas causing outage or load reduction
 - Continue “Cruise Rating” initiative - seeks optimum loading point versus maintenance costs, outage rates

Nuclear Strategy

- KCP&L is comfortable with nuclear as part of a balanced generating portfolio – Wolf Creek is our lowest incremental cost unit and considered an important part of the fleet
- No current plans for second unit at Wolf Creek site, but will continue to evaluate options for site development
- Will continue to focus on management options to improve operational performance of plant
- Looking ahead, we believe that legislative change to allow CWIP in rate base will be essential before nuclear investment advances in Missouri
 - Missouri utility consortium (Missouri Energy Development Association) continues to support such changes
- Post-Fukushima, NRC emphasis on ensuring safety of stored spent fuel and reassessing emergency preparedness and onsite response for all U.S. nuclear operators
 - NRC response appears to be controlled and deliberate



**Wolf Creek Nuclear Plant –
Burlington, Kansas**



Regulatory

Key Themes – Regulatory

1. Our rates continue to compare well regionally and nationally
2. Over the last five years, the Company has received fair and constructive treatment in both Kansas and Missouri, allowing for recovery of our CEP capital additions
3. We continue to aggressively pursue strategies to improve our operating cost structure and are evaluating the best combination of rate cases and riders/trackers to reduce regulatory lag while minimizing the impact on customers

Cost Reduction Actions

- We continue to aggressively pursue strategies to improve our operating cost structure
 - Have reduced ongoing O&M over last three years to offset increasing costs in the areas of transmission, nuclear and pensions & benefits
 - Organization Realignment and Voluntary Separation Program announced earlier in 2011 reduced management headcount by 140 (12% of total management positions)
 - Continue to manage headcount by implementing process improvements and strategically deploying technology advancements while also benefiting from natural attrition
 - For 2011, froze nearly all executive salary increases, limited management employee merit increases to 1% and are aggressively pursuing efficiency improvements across our supply chain
 - Actions have allowed us to operate within our approved cost of service in all but a few areas:
 - Transmission Expenses
 - Wolf Creek Nuclear Operations and Maintenance
 - Property Taxes
 - Fuel and Purchased Power, Including New Wind PPAs (KCP&L-MO only)

Strong Track Record of Execution

Comprehensive Energy Plan

	Project description	Comments
Wind	<ul style="list-style-type: none"> • 100 MW plant in Spearville, KS • Began construction in 2005 	<ul style="list-style-type: none"> ✓ Completed in Q3 2006 ✓ In rate base from 1/1/2007 ✓ No regulatory disallowance
LaCygne Environmental	<ul style="list-style-type: none"> • Selective Catalytic Reduction (SCR) unit at LaCygne 1 	<ul style="list-style-type: none"> ✓ Completed in Q2 2007 ✓ In rate base from 1/1/2008 ✓ No regulatory disallowance
Iatan 1 Environmental	<ul style="list-style-type: none"> • Air Quality Control System at Iatan 1 	<ul style="list-style-type: none"> ✓ Completed in Q2 2009 ✓ Included in KCP&L KS, KCP&L MO and GMO rate base with minimal (1%) disallowance
Iatan 2	<ul style="list-style-type: none"> • Construction of Iatan 2 super-critical coal plant (850 MW; 73% GXP ownership share)¹ 	<ul style="list-style-type: none"> ✓ In-service on 8/26/2010; Included in KCP&L KS, KCP&L MO and GMO rate base with minimal (1%) disallowance

• **Great Plains Energy effectively executed all elements of its Comprehensive Energy Plan and received constructive regulatory treatment**

– For 12 rate cases completed since 2006², KCP&L and GMO achieved 65% of the rate increases requested and inclusion in rate base of over 99% of CEP capital investments

¹ Includes post-combustion environmental technologies including an SCR system, wet flue gas desulphurization system and fabric filter to control emissions

² See Appendix B for list and detail of cases

Future Regulatory Considerations

- Although the results of CEP rate cases were favorable, several issues contributing to current regulatory lag still exist
- We continue to manage current expenditures, determine cost drivers and identify additional efficiencies so as to live within our authorized revenues
- New docket in Missouri to consider regulatory lag resulting from allocation differences between two regulatory jurisdictions, e.g., MO and KS
 - Will provide for more constructive regulatory treatment across jurisdictions
- We are evaluating the opportunity for additional riders and trackers as authorized by statute or precedent (see Appendix B for mechanisms currently used and others potentially available)
- Subject to ongoing evaluation, our current expectation is to file new rate cases in Missouri and Kansas for new rates effective by January 2013

Future Regulatory Considerations

- Factors contributing to regulatory lag:
 - Missouri – Approximately \$32M of Iatan 2 costs subsequent to October 31, 2010 value assigned in the 2010 Missouri cases
 - Kansas – Approximately \$12M of Iatan 2 costs above the value assigned in the 2010 Kansas case
 - Kansas – Approximately \$47M of investment for 48MW of wind generation at Spearville 2 (in-service late 2010) - already in KCP&L Missouri rate base
 - Other capital investments placed in-service subsequent to effectiveness of current rates
 - Increased O&M and other costs based on test year and true-up values as compared with amounts currently in rates, including new wind PPAs
- 2012 conversion to common equity and remarketing of debt related to \$287.5M Equity Units
- Refinancing of GMO high-cost debt - \$500M 11.875% Senior Notes that mature July 2012
- Ability to seek certain riders and/or trackers only through a general rate case
- Economic pressures impacting retail demand



State of the Service Territory / Demand and Load Growth

Key Themes – State of the Service Territory

1. Short-term challenges
 - Recent economic challenges have caused labor and housing market growth to remain weak and the recovery is expected to lag the national expansion in the near-term

2. Medium / long-term optimism
 - We operate in a geographically well-positioned (center of the U.S.) service territory grounded by a diversified economy that continues to evolve in areas such as technology and renewables
 - Longer term, low costs and favorable demographic trends should drive solid growth that will match the U.S. average and outpace that of most other Midwest metro areas

KC Metropolitan Area Economy – Snapshot

- The Kansas City metro area economy is represented by a diverse set of industries, supported by a sizeable presence in the governmental sector

Strengths	Weaknesses	Opportunities
<ul style="list-style-type: none"> • Diversified economy • Stability from governmental sector • Well-developed transportation & distribution network • Central national location • Low cost of living/business 	<ul style="list-style-type: none"> • Increased competition from other Midwest business centers • High dependence on Sprint Nextel and telecom • Suburban sprawl • Low employment growth 	<ul style="list-style-type: none"> • New Ford product lines create local jobs • Google ultra-high speed fiber network supports tech economy • Kansas wind power attracts clean-energy firms

Source for Listed Attributes: Moody's Analytics

Leading Industries <i>(Employees in 000's)</i>	
State & Local Government	124.8
Full and Limited-Service Restaurants	63.3
General Medical & Surgical Hospitals / Offices of Physicians	46.7
Federal Government	29.1
Employment Services	20.6
Depository Credit Intermediation	16.3
Grocery Stores	16.2
Department Stores	15.5
Computer Systems Design and Related Svcs	15.2
Management of Companies and Enterprises	15.2

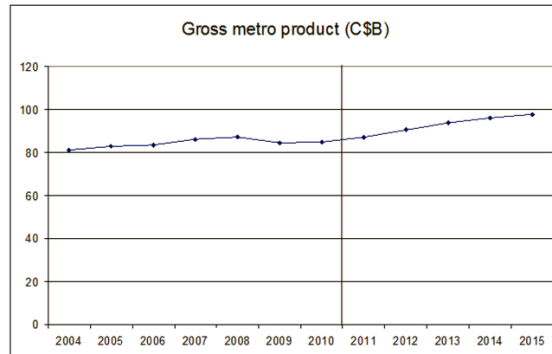
Top 10 Employers <i>(# of Employees)</i>	
HCA Midwest Health System	8,127
Wal-Mart Stores, Inc.	7,400
Sprint Corporation	7,300
St. Luke's Health System	6,622
McDonald's USA LLC	5,700
Cerner Corporation	4,980
Children's Mercy Hospital & Clinics	4,812
DST Systems, Inc.	4,425
Truman Medical Center	4,081
University of Kansas Hospital	3,880

Source: The Kansas City Business Journal, BLS and Moody's Analytics

KC Metropolitan Area Economy – Snapshot

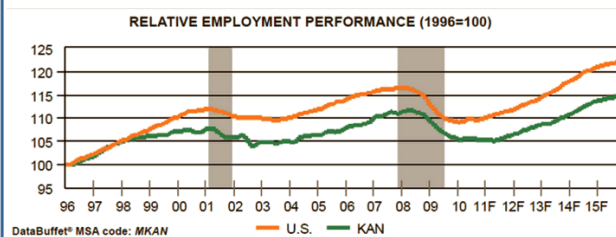
Recent Performance

- Labor market has firmed recently, but recovery remains sluggish as job growth remains below national and regional averages (as it has since late 2009)
- Expansion is limited to relatively few industries, such as retail and manufacturing
- Home prices continue to slide and construction is depressed
- Nevertheless, the economy is in a better position compared with six months ago, as the labor market is no longer deteriorating



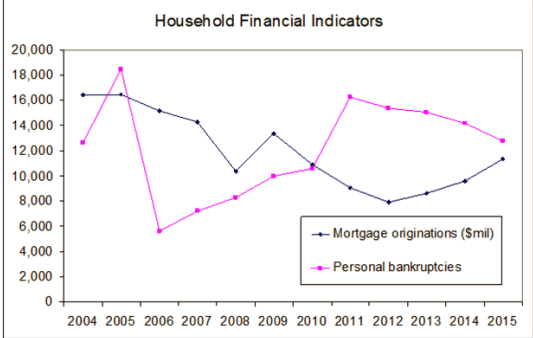
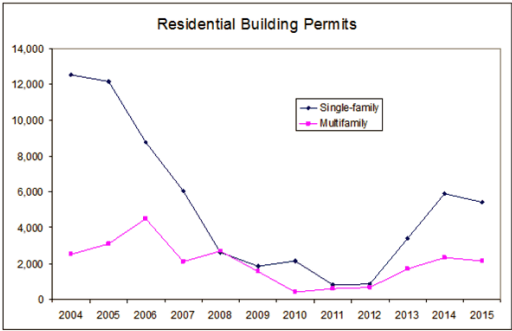
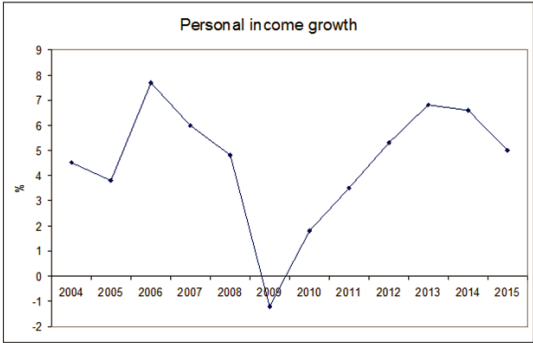
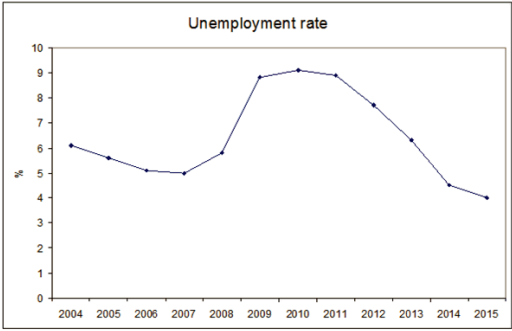
Economic Outlook

- Kansas City does not appear to be at a heightened risk of a second recession as labor market troubles have mostly ended
- Growth remains weak, however, and the recovery is expected to lag the national expansion in the near-term
- Later in 2011, however, the recovery is projected to improve in pace and breadth, expanding beyond manufacturing and into key service industries
- Longer term, low costs and favorable demographic trends are forecasted to drive solid growth that will match the U.S. average and outpace that of most Midwest metro areas



*Source: Graphics and text used with permission from Moody's Analytics

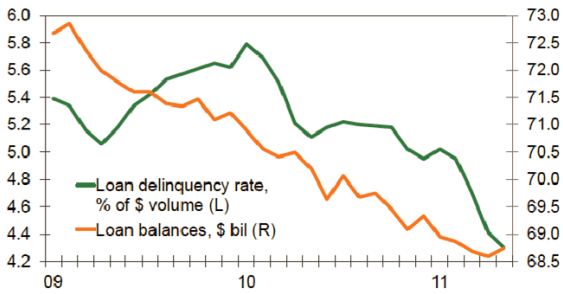
KC Metropolitan Economy – Key Indicators



*Source: Moody's

KC Metropolitan Economy – Key Indicators

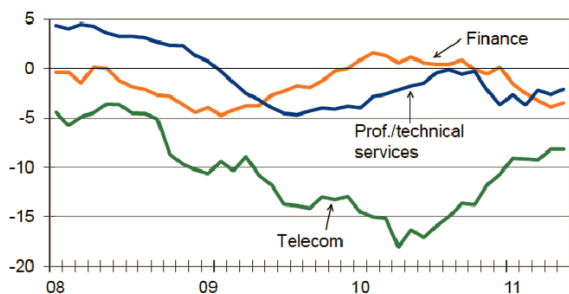
Necessary Deleveraging Will Weigh on Spending



Sources: Equifax, Moody's Analytics

Key Office-Using Industries Are Still Drags

Payroll employment, % change yr ago

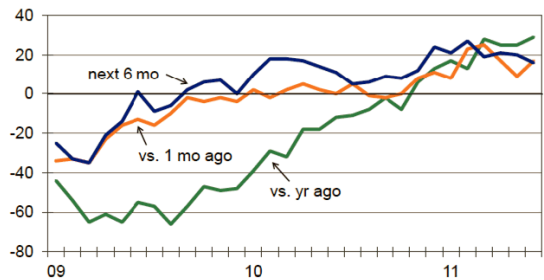


Source: BLS

*Graphics used with permission from Moody's Analytics

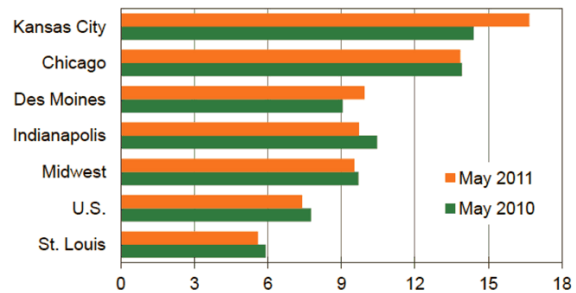
Factory Hiring Poised to Continue

Manufacturing employment diffusion index, >0 indicates expansion



Banks Still Struggling to Move REOs

REO foreclosure inventory per 1,000 households



Sources: FHFA, Moody's Analytics



Financial Strategy

James C. Shay
Senior Vice President, Finance &
Strategic Development and CFO

Topics

- 2011-2012 Guidance / 2013 Drivers
- Capital Expenditures and Rate Base
- Dividends
- Cash Flow and Financing Strategy



2011-2012 Guidance / 2013 Drivers

Special Factors Impacting 2011 Guidance

(All Amounts Per-Share)

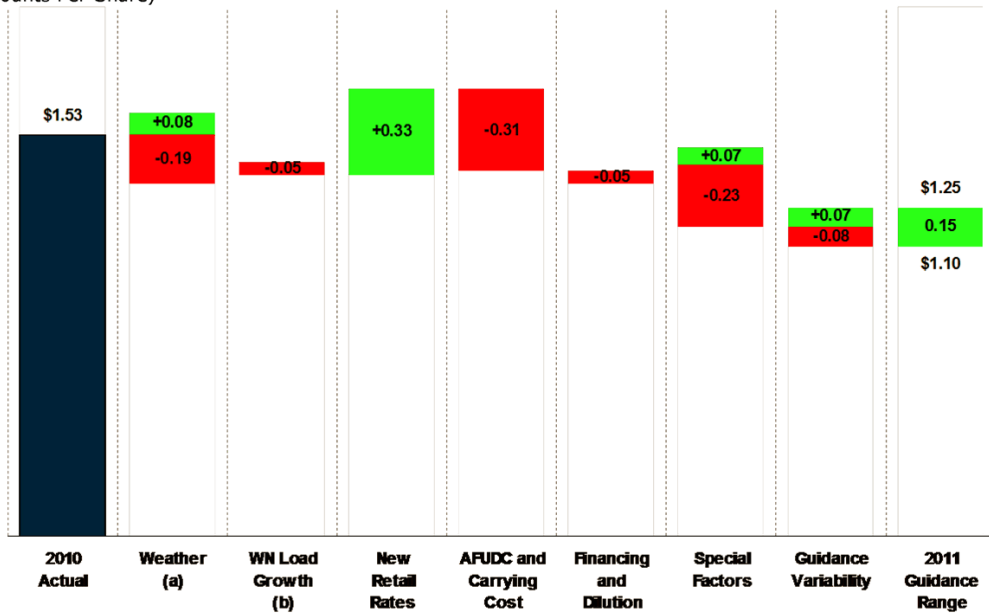
	1Q	2Q	2 nd Half 2011 Estimate	Total
Disallowances and other accounting effects from Missouri rate case orders	[\$0.03]			[\$0.03]
Organizational realignment and voluntary separation program	[\$0.04]	[\$0.01]		[\$0.05]
Wolf Creek extended outage and replacement power		[\$0.05]		[\$0.05]
Coal conservation due to flooding			[\$0.10]	[\$0.10] (a)
Total	[\$0.07]	[\$0.06]	[\$0.10]	[\$0.23] (b)

(a) Range [\$0.08] to [\$0.12]

(b) Range [\$0.21] to [\$0.25]

2011 Earnings Guidance Range - \$1.10 - \$1.25

(All Amounts Per-Share)



- (a) Year to Date June 2011 Versus Full Year 2010
- (b) Weather-Normalized ("WN") Year to Date June 2011 Versus Year to Date June 2010

2011 Earnings Guidance Variability

- EPS guidance variability of \$0.15 or approximately \$34M in pre-tax income
 - Potential drivers
 - Retail Demand
 - Load growth
 - Weather
 - Other
 - Coal conservation
 - Fuel, purchased power, wholesale margin (KCP&L Missouri)
 - Transmission costs, including SPP Balanced Portfolio and Priority Projects
 - Non-Fuel Operating and Maintenance (“NFOM”) expenses
 - Property taxes
 - Interest expense
 - Income taxes
 - Other income and expense

Potential Earnings from Regulated Operations Based on Recent Rate Case Outcomes

In Millions, Except EPS	Kansas	Missouri	Potential 2011	Potential 2012
KCP&L Rate Base	\$ 1,781	\$ 2,036	\$ 3,817	\$ 3,817
GMO Rate Base	n/a	1,773	1,773	1,773
Total Rate Base	\$ 1,781	\$ 3,809	\$ 5,590	\$ 5,590
Common Equity Ratio	49.7%	46.4%	47.5%	47.5%
Common Equity in Rate Base	\$ 885	\$ 1,769	\$ 2,653	\$ 2,653
Authorized ROE	10.00%	10.00%	10.00%	10.00%
Allowed Net Income	\$ 88	\$ 177	\$ 265	\$ 265
Weighted Avg Dilutive Shares ¹	139	139	139	145
Potential EPS	\$ 0.64	\$ 1.28	\$ 1.91	\$ 1.83

¹2012 includes conversion to 17.1M shares of GXP common stock in June

2011 Earnings Guidance - \$1.10 - \$1.25

	Projected 2011			
	EPS		ROE	
	Low	High	Low	High
Regulatory Potential	\$ 1.91	\$ 1.91	10.0%	10.0%
(a) Utility Capital Investment Lag	(0.04)	(0.04)	-0.2%	-0.2%
(b) COS Lag - Depreciation	(0.03)	(0.03)	-0.2%	-0.2%
(c) COS Lag - Fuel & Other	(0.05)	(0.05)	-0.3%	-0.3%
(d) COS Lag - Prop Tax & Trans	(0.08)	(0.08)	-0.4%	-0.4%
(e) Retail Demand & NFOM, Net	-	-	0.0%	0.0%
Regulatory Normalized	\$ 1.71	\$ 1.71	8.9%	8.9%
(f) Rate Case Timing	(0.18)	(0.18)	-0.9%	-0.9%
(g) Special Factors	(0.23)	(0.23)	-1.1%	-1.1%
Guidance Variability	(0.06)	0.09	-0.3%	0.5%
Regulatory Estimate	\$ 1.24	\$ 1.39	6.6%	7.4%
(h) Corporate/Shareholder Costs	(0.04)	(0.04)	-0.2%	-0.2%
(i) Non Regulatory Capital Costs	(0.10)	(0.10)	-1.2%	-1.2%
Consolidated Estimate	\$ 1.10	\$ 1.25	5.3%	6.1%

Normalized Lag of Approximately 100 Basis Points

Total Estimated Regulatory Lag of Approximately 200 to 300 Basis Points

- (a) Primarily Construction Work in Progress, Net of AFUDC
- (b) Depreciation in Excess of Rates Due to Plant Additions After Rate Case True Up Dates
- (c) Results Due to Lack of Fuel Adjustment for KCPL-MO, Including Partial Year Impact of Coal Rail Contract; MO/KS Jurisdictional Recovery Gaps
- (d) Property Taxes and Transmission Expenses in Excess of Amounts Included in Rates
- (e) Assumes NFOM Expense Will Be Managed Within Level of Retail Demand in Rate Cases
- (f) Missouri Partial Year Rate Cases - KCP&L Effective Early May; GMO Effective Late June
- (g) Rate Case Disallowances; Organizational Realignment and Voluntary Separation Program; Wolf Creek Extended Outage; Coal Conservation
- (h) Amounts Not Allowed in Rates, e.g., Charitable Contributions, Community Involvement, Allocated Corporate Expenses
- (i) Financing Costs Relating to Assets Not in Rates (Primarily Goodwill and Deferred Income Taxes Related to GMO Acquisition)

2012 Earnings Guidance - \$1.35 - \$1.55

	Projected 2011				Projected 2012			
	EPS		ROE		EPS		ROE	
	Low	High	Low	High	Low	High	Low	High
(a) Regulatory Potential	\$ 1.91	\$ 1.91	10.0%	10.0%	\$ 1.83	\$ 1.83	10.0%	10.0%
(b) Utility Capital Investment Lag	(0.04)	(0.04)	-0.2%	-0.2%	(0.07)	(0.07)	-0.4%	-0.4%
(c) COS Lag - Depreciation	(0.03)	(0.03)	-0.2%	-0.2%	(0.05)	(0.05)	-0.3%	-0.3%
(d) COS Lag - Fuel & Other	(0.05)	(0.05)	-0.3%	-0.3%	(0.02)	(0.02)	-0.1%	-0.1%
(e) COS Lag - Prop Tax & Trans	(0.08)	(0.08)	-0.4%	-0.4%	(0.08)	(0.08)	-0.4%	-0.4%
(f) Retail Demand & NFOM, Net	-	-	0.0%	0.0%	-	-	0.0%	0.0%
Regulatory Normalized	\$ 1.71	\$ 1.71	8.9%	8.9%	\$ 1.61	\$ 1.61	8.8%	8.8%
(g) Rate Case Timing	(0.18)	(0.18)	-0.9%	-0.9%	-	-	0.0%	0.0%
(h) Special Factors	(0.23)	(0.23)	-1.1%	-1.1%	-	-	0.0%	0.0%
Guidance Variability	(0.06)	0.09	-0.3%	0.5%	(0.12)	0.08	-0.6%	0.5%
Regulatory Estimate	\$ 1.24	\$ 1.39	6.6%	7.4%	\$ 1.49	\$ 1.69	8.2%	9.3%
(i) Corporate/Shareholder Costs	(0.04)	(0.04)	-0.2%	-0.2%	(0.04)	(0.04)	-0.2%	-0.2%
(j) Non Regulatory Capital Costs	(0.10)	(0.10)	-1.2%	-1.2%	(0.10)	(0.10)	-1.4%	-1.4%
Consolidated Estimate	\$ 1.10	\$ 1.25	5.3%	6.1%	\$ 1.35	\$ 1.55	6.6%	7.7%

Total Estimated Regulatory Lag of Approximately 100 to 200 Basis Points

2012 Versus 2011 Guidance

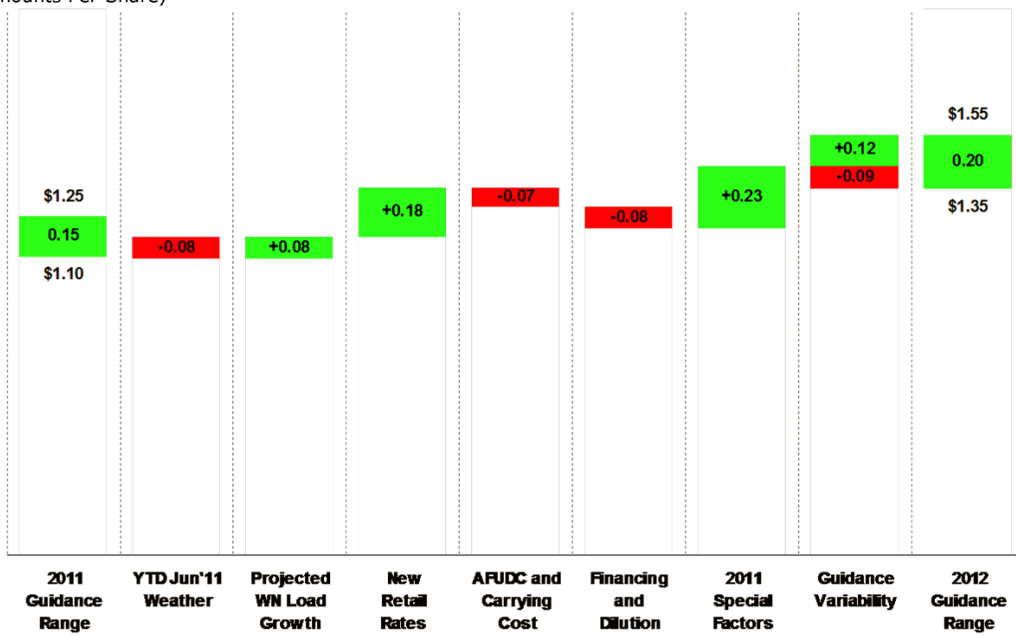
- (a) Change Due to Additional Shares From Equity Units Converted to GXP Common Stock in June 2012
- (b) Impacts of Capital Expenditures and Related AFUDC
- (c) Impacts of Additional Plant Placed in Service and Not in Rates
- (d) Elimination of 2011 Coal Rail Contract Lag Related to Timing of KCP&L-MO Rate Case
- (e) Changes in Property Taxes and Transmission Expenses Covered by Guidance Variability
- (f) Assumes NFOM Expense Will Be Managed Within Level of Retail Demand in Rates
- (g) Full Year Missouri Rate Cases in Place
- (h) Assumes 2011 Special Factors Do Not Impact 2012
- (i) No Anticipated Change in Corporate/Shareholder Costs
- (j) No Anticipated Change in Non Regulatory Capital Cost

2012 Earnings Guidance Variability

- EPS guidance variability of \$0.20 or approximately \$48M in pre-tax income
 - Potential Drivers
 - Retail Demand & NFOM
 - Base assumption is changes in weather-normalized demand offset changes in NFOM
 - Weather
 - Riders/Trackers
 - Transmission costs
 - Property taxes
 - Other
 - Fuel, purchased power, wholesale margin (KCP&L Missouri)
 - Transmission costs for SPP Balanced Portfolio and Priority Projects
 - Property taxes
 - Interest expense
 - Income taxes
 - Other income and expense

2012 Earnings Guidance Range - \$1.35 - \$1.55

(All Amounts Per-Share)



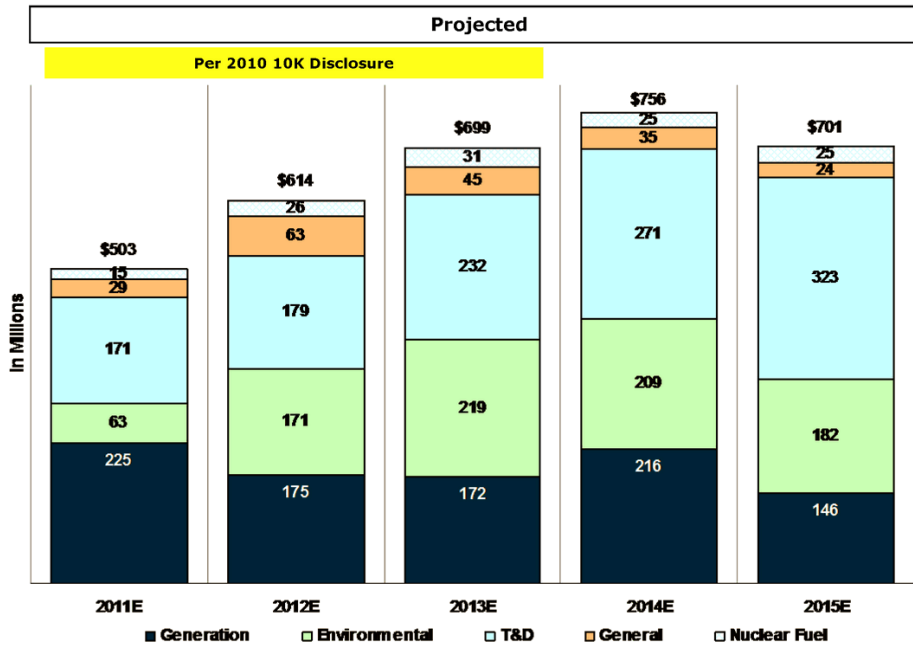
2013 Projected Drivers

- Target is 50 basis points of lag in regulated operations in 2013 (compared to approximately 100-200 basis points reflected in 2012 guidance)
- Strategies to reduce lag in 2013 are 1) operational and 2) regulatory
 - Operational
 - High level of system reliability and plant performance
 - Continue baseline assumption that changes in NFOM and weather-normalized load are offsetting
 - Aggressively manage NFOM as close to allowed level in rates as possible
 - Demand growth would potentially create earnings upside
 - Increased AFUDC from environmental and other capital projects
 - Regulatory
 - Currently-expected rate cases and/or riders & trackers:
 - Rate cases – present view contemplates filing to achieve new rates effective beginning of 2013
 - Riders & Trackers – initial focus on property taxes and transmission expenses
- Other drivers
 - Weighted average shares – increase to 154M with full-year impact from Equity Units conversion
 - Other impacts from Equity Units conversion
 - ROE benefit from additional equity in capital structure largely offset by significantly lower interest expense on Equity Units' remarketed debt
 - Full-year impact from refinancing GMO high-coupon debt
 - Expected to be negative in terms of GAAP interest expense



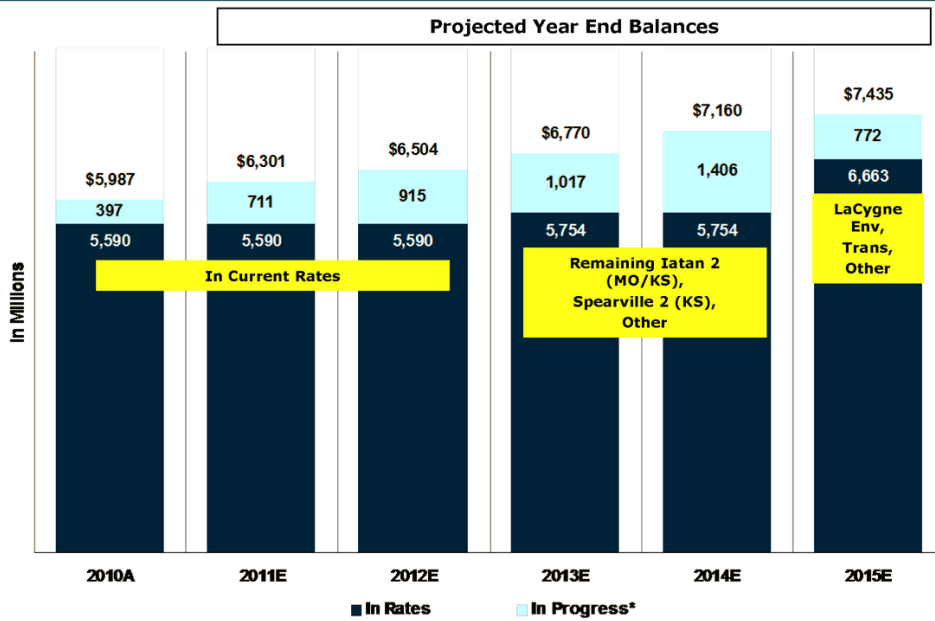
Capital Expenditures and Rate Base

Projected 2011-2015 Capital Expenditures



- Generation includes remaining costs related to Iatan 2 in 2011
- Environmental includes "High Likelihood" retrofits for LaCygne, Montrose, and Sibley
- T&D includes SPP Balanced Portfolio and Priority Projects for Iatan-Nashua, Swissvale-Stilwell, and Sibley-Maryville-Nebraska City

Rate Base Growth



*In Progress includes:

- Plant in service but not in rates
- Construction Work In Progress, including environmental and transmission projects
- Changes in deferred income taxes, including book-versus-tax differences and bonus depreciation



Dividends

Dividends

- Utility sector has traditionally been required to finance dividends during periods of high capital spending:

In Billions	2005	2006	2007	2008	2009	2010
Operating Activities	\$ 50	\$ 69	\$ 61	\$ 61	\$ 83	\$ 78
Capital Expenditures	(48)	(60)	(74)	(83)	(78)	(74)
Dividends Paid	(15)	(16)	(15)	(17)	(17)	(18)
Net Free Cash Flow ("NFCF")	\$ (13)	\$ (7)	\$ (28)	\$ (38)	\$ (12)	\$ (15)

¹Source: JPMorgan

- However, the impact on GXP from the recent capital spending cycle has been more significant than for the industry at large:

In Billions	Industry	GXP
Operating Activities	\$ 403	\$ 2.4
Capital Expenditures	(417)	(3.8)
Dividends Paid	(98)	(0.8)
Net Free Cash Flow* ("NFCF")	\$ (113)	\$ (2.2)
NFCF / Operating Activities	(28%)	(93%)
Dividends Paid / Operating Activities	(24%)	(34%)
Credit	BBB	BBB-

- CEP was the largest capital spending program in GXP's history and essential to securing a long-term energy future for its customers. The relative size of the investment combined with a challenging economy, however, have contributed to lower credit rating for GXP than the industry overall
- GXP seeks to boost TSR through dividend growth but also desires to strengthen credit profile

*Net Free Cash Flow ("NFCF"), as used by GXP, is a non-GAAP measure and is defined in Appendix A

Dividend Strategy Considerations

- Company's objective is to create shareholder value through
 - Increased earnings from reduced lag, disciplined cost management and long-term asset growth
 - A competitive dividend that complements this growth platform

Competitive Dividend

Goal to Maintain Competitive Dividend While Strengthening Key Credit Metrics; Objective to Grow Dividend In Line With Payout Ratio Targets

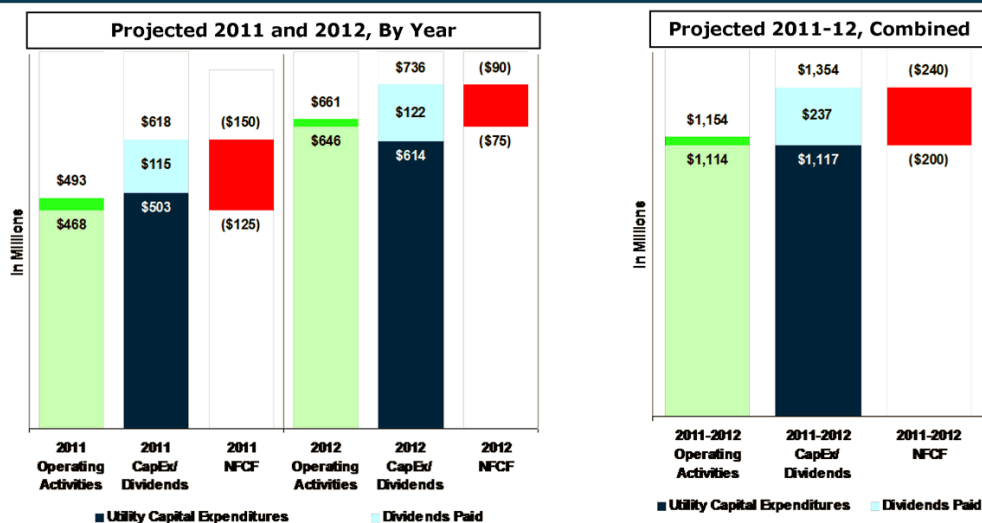
- Strong emphasis on improving credit metrics
 - Objective is visibility to sustainable FFO / Adjusted Debt* of 16%+ beginning in 2012
- Dividend is reviewed quarterly in context of this objective as well as a belief that a sustainable and increasing dividend is a key driver of TSR and therefore a desirable goal
- Target payout ratio remains 50-70%

*FFO / Adjusted Debt is a non-GAAP measure that is defined in Appendix A



Cash Flow and Financing Strategy

2011-2012 Net Free Cash Flow



- Net Free Cash Flow* ("NFCF") expected to improve from 2011 to 2012
- Common dividends assumed at \$0.83 per share in 2011 and 2012 for illustrative purposes and not an indication of Board of Directors' approval
- 2012 dividends increase due to impact of Equity Units conversion in June 2012
- Expect NFCF to remain negative in 2013-14 due mostly to environmental and transmission capital expenditures; positive NFCF anticipated by 2015

*Net Free Cash Flow is a non-GAAP financial measure and is defined in Appendix A

2011 and 2012 Financing Strategy

Debt

- 2011- Anticipated KCP&L long-term debt issuance of \$300M - \$400M to refinance November 2011 long-term maturity of \$150M at 6.50% and repay short-term debt
- 2012 - GMO \$500M Senior Notes at 11.875% mature July 2012; assumed to be refinanced through (1) remarketing of \$287.5M Equity Units' debt by GPE and (2) \$250M long-term debt issue by GMO or GPE

Equity

- Equity Units conversion anticipated in June 2012
 - No incremental cash flow other than from debt remarketing referenced above
- No additional equity issuance currently anticipated through 2013
 - Issuing equity may be considered to finance asset growth if expected to be EPS-accretive within 12-24 months of issuance



Concluding Thoughts

Michael J. Chesser
Chairman and CEO

GXP – A Compelling Investment Thesis.....

Focused on Shareholder Value Creation

- Target significant reduction in regulatory lag
- Seek to deliver earnings growth and increasing and sustainable cash dividends as a key component of TSR
- Improvement in / stability of key credit metrics is a priority

Attractive Platform for Long-Term Growth

- **Environmental** – additional ~\$1 billion of “High Likelihood” capital projects planned to comply with existing / proposed environmental rules
- **Transmission** – additional \$0.4 billion of capital additions planned
- **Renewables** – driven by Collaboration Agreement and MO/KS RPS; potential capital additions if attractive equity financing is available
- **Other Growth Opportunities** – selective future initiatives that will leverage our core strengths

Diligent Regulatory Approach

- Proven track record of constructive regulatory treatment
- Credibility with regulators in terms of planning and execution of large, complex projects
- Competitive retail rates on a regional and national level supportive of potential future investment

Excellent Relationships with Key Stakeholders

- **Customers** - Tier 1 customer satisfaction
- **Suppliers** – strategic supplier alliances focused on long-term supply chain value
- **Employees** - strong relations between management and labor (3 IBEW locals)
- **Communities** - Leadership, volunteerism and high engagement in the areas we serve

....Which Will Deliver Value to Shareholders

Earnings Growth

Expected Through Reduced Regulatory Lag, Disciplined Cost Management and Long-Term Rate Base Growth

+

Competitive Dividend

Goal to Maintain Competitive Dividend While Strengthening Key Credit Metrics; Objective to Grow Dividend In Line With Payout Ratio Targets

Objective: Improved Total Shareholder Returns



PART 5

Q&A

Great Plains Energy



2011 Analyst Meeting

August 8, 2011

Appendix A – Non-GAAP Measures

Great Plains Energy Reconciliation of Gross Margin to Operating Revenues (Unaudited)

(millions)	Three Months Ended June 30		Year to Date June 30	
	2011	2010	2011	2010
Operating revenues	\$ 565.1	\$ 552.0	\$ 1,058.0	\$ 1,058.9
Fuel	(114.4)	(104.1)	(219.3)	(205.9)
Purchase power	(55.4)	(37.9)	(110.3)	(103.4)
Transmission of electricity by others	(7.0)	(7.2)	(14.5)	(12.8)
Gross margin	\$ 388.3	\$ 402.8	\$ 713.9	\$ 736.8

Gross margin is a financial measure that is not calculated in accordance with generally accepted accounting principles (GAAP). Gross margin, as used by Great Plains Energy, is defined as operating revenues less fuel, purchased power and transmission of electricity by others. The Company's expense for fuel, purchased power and transmission of electricity by others, offset by wholesale sales margin, is subject to recovery through cost adjustment mechanisms, except for KCP&L's Missouri retail operations. As a result, operating revenues increase or decrease in relation to a significant portion of these expenses. Management believes that gross margin provides a more meaningful basis for evaluating the Electric Utility segment's operations across periods than operating revenues because gross margin excludes the revenue effect of fluctuations in these expenses. Gross margin is used internally to measure performance against budget and in reports for management and the Board of Directors. The Company's definition of gross margin may differ from similar terms used by other companies. A reconciliation to GAAP operating revenues is provided in the table above.

Credit Metric Reconciliation to GAAP

Funds from Operations (FFO) / Adjusted Debt

Funds from operations (FFO) to adjusted debt is a financial measure that is not calculated in accordance with generally accepted accounting principles (GAAP). FFO to adjusted debt, as used by Great Plains Energy, is defined in accordance with Standard & Poor's methodology used for calculating FFO to debt. The numerator of the ratio is defined as net cash from operating activities (GAAP) plus non-GAAP adjustments related to operating leases, hybrid securities, post-retirement benefit obligations, capitalized interest, power purchase agreements, asset retirement obligations, changes in working capital and decommissioning fund contributions. The denominator of the ratio is defined as the sum of debt balances (GAAP) plus non-GAAP adjustments related to some of the same items adjusted for in the numerator and other adjustments related to securitized receivables and accrued interest. Management believes that FFO to adjusted debt provides a meaningful way to better understand the Company's credit profile. FFO to adjusted debt is used internally to help evaluate the possibility of a change in the Company's credit rating.

	2008	2009	2010	LTM*
Funds from operations				
Net cash from operating activities	\$ 437.9	\$ 335.4	\$ 552.1	\$ 502.2
Adjustments to reconcile net cash from operating activities to FFO:				
Operating leases	11.2	7.5	8.7	9.4
Intermediate hybrids reported as debt		17.8	28.8	28.8
Intermediate hybrids reported as equity	(0.8)	(0.8)	(0.8)	(0.8)
Post-retirement benefit obligations	9.9	8.3	24.4	24.4
Capitalized interest	(31.7)	(37.7)	(28.5)	(11.2)
Power purchase agreements	11.9	12.0	12.0	8.4
Asset retirement obligations	(3.6)	(6.0)	(7.0)	(7.0)
Reclassification of working-capital changes	(190.8)	37.9	95.1	(10.2)
US decommissioning fund contributions	(3.7)	(3.7)	(3.7)	(3.3)
Total adjustments	(197.6)	35.3	129.0	38.5
Funds from operations	\$ 240.3	\$ 370.7	\$ 681.1	\$ 540.7
Adjusted Debt				
Notes payable	\$ 204.0	\$ 252.0	\$ 95.0	\$ 92.0
Collateralized note payable			95.0	95.0
Commercial paper	380.2	186.6	263.5	476.7
Current maturities of long-term debt	70.7	1.3	485.7	451.3
Long-term Debt	2,556.6	3,213.0	2,942.7	2,860.8
Total debt	3,211.5	3,652.9	3,796.4	3,975.8
Adjustments to reconcile total debt to adjusted debt:				
Trade receivables sold or securitized	70.0	95.0		
Operating leases	156.8	139.7	142.5	144.3
Intermediate hybrids reported as debt		(287.5)	(287.5)	(287.5)
Intermediate hybrids reported as equity	19.5	19.5	19.5	19.5
Post-retirement benefit obligations	292.7	289.3	280.5	280.2
Accrued interest not included in reported debt	72.4	72.5	75.4	70.9
Power purchase agreements	48.4	50.2	50.2	23.6
Asset retirement obligations	33.6	34.2	41.1	37.4
Total adjustments	693.4	412.9	321.7	288.4
Adjusted Debt	\$ 3,904.9	\$ 4,065.8	\$ 4,118.1	\$ 4,264.2
FFO / Adjusted Debt	6.2%	9.1%	16.5%	12.7%

* Last twelve months as of June 30, 2011

Credit Metric Reconciliation to GAAP

Funds from Operations (FFO) Interest Coverage

Funds from operations (FFO) interest coverage ratio is a financial measure that is not calculated in accordance with generally accepted accounting principles (GAAP). FFO interest coverage, as used by Great Plains Energy, is defined in accordance with Standard & Poor's methodology used for calculating FFO interest coverage. The numerator of the ratio is defined as net cash from operating activities (GAAP) plus non-GAAP adjustments related to operating leases, hybrid securities, post-retirement benefit obligations, capitalized interest, power purchase agreements, asset retirement obligations, changes in working capital and decommissioning fund contributions plus adjusted interest expense (non-GAAP). The denominator of the ratio, adjusted interest expense, is defined as interest charges (GAAP) plus non-GAAP adjustments related to some of the same items adjusted for in the numerator and other adjustments needed to match Standard & Poor's calculation. Management believes that FFO interest coverage provides a meaningful way to better understand the Company's credit profile. FFO interest coverage is used internally to help evaluate the possibility of a change in the Company's credit rating.

	2008	2009	2010	LTM*
Funds from operations				
Net cash from operating activities	\$ 437.9	\$ 335.4	\$ 552.1	\$ 502.2
Adjustments to reconcile net cash from operating activities to FFO:				
Operating leases	11.2	7.5	8.7	9.4
Intermediate hybrids reported as debt		17.8	28.8	28.8
Intermediate hybrids reported as equity	(0.8)	(0.8)	(0.8)	(0.8)
Post-retirement benefit obligations	9.9	8.3	24.4	24.4
Capitalized interest	(31.7)	(37.7)	(28.5)	(11.2)
Power purchase agreements	11.9	12.0	12.0	8.4
Asset retirement obligations	(3.6)	(6.0)	(7.0)	(7.0)
Reclassification of working-capital changes	(190.8)	37.9	95.1	(10.2)
US decommissioning fund contributions	(3.7)	(3.7)	(3.7)	(3.3)
Total adjustments	(197.6)	35.3	129.0	38.5
Funds from operations	\$ 240.3	\$ 370.7	\$ 681.1	\$ 540.7
Interest expense				
Interest charges	\$ 111.3	\$ 180.9	\$ 184.8	\$ 186.8
Adjustments to reconcile interest charges to adjusted interest expense:				
Trade receivables sold or securitized	3.5	4.8		
Operating leases	7.3	9.4	8.1	7.3
Intermediate hybrids reported as debt		(17.8)	(28.8)	(28.8)
Intermediate hybrids reported as equity	0.8	0.8	0.8	0.8
Post-retirement benefit obligations	3.7	21.6	19.4	19.4
Capitalized interest	31.7	37.7	28.5	11.2
Power purchase agreements	2.9	3.2	2.9	1.2
Asset retirement obligations	7.3	8.1	8.7	8.7
Other adjustments	31.0		(11.5)	
Total adjustments	88.2	67.8	28.1	19.8
Adjusted interest expense	\$ 199.5	\$ 248.7	\$ 212.9	\$ 206.6
FFO interest coverage (x)	2.2	2.5	4.2	3.6

* Last twelve months as of June 30, 2011

Credit Metric Reconciliation to GAAP

Adjusted Debt / Total Adjusted Capitalization

Adjusted debt to total adjusted capitalization is a financial measure that is not calculated in accordance with generally accepted accounting principles (GAAP). Adjusted debt to total adjusted capitalization, as used by Great Plains Energy, is defined in accordance with Standard & Poor's methodology used for calculating the ratio of debt to debt and equity. The numerator of the ratio, adjusted debt, is defined as the sum of debt balances (GAAP) plus non-GAAP adjustments related to securitized receivables, operating leases, hybrid securities, post-retirement benefit obligations, accrued interest, power purchase agreements and asset retirement obligations. The denominator of the ratio, total adjusted capitalization, is defined as the sum of equity balances (GAAP) plus non-GAAP adjustments related to hybrid securities plus the non-GAAP adjusted debt as defined for the numerator. Management believes that adjusted debt to total adjusted capitalization provides a meaningful way to better understand the Company's credit profile. Adjusted debt to total adjusted capitalization is used internally to help evaluate the possibility of a change in the Company's credit rating.

	2008	2009	2010	LTM*
Adjusted Debt				
Notes payable	\$ 204.0	\$ 252.0	\$ 9.5	\$ 92.0
Collateralized note payable			95.0	95.0
Commercial paper	380.2	186.6	263.5	476.7
Current maturities of long-term debt	70.7	1.3	485.7	451.3
Long-term Debt	2,556.6	3,213.0	2,942.7	2,860.8
Total debt	3,211.5	3,652.9	3,796.4	3,975.8
Adjustments to reconcile total debt to adjusted debt:				
Trade receivables sold or securitized	70.0	95.0		
Operating leases	156.8	139.7	142.5	144.3
Intermediate hybrids reported as debt		(287.5)	(287.5)	(287.5)
Intermediate hybrids reported as equity	19.5	19.5	19.5	19.5
Post-retirement benefit obligations	292.7	289.3	280.5	280.2
Accrued interest not included in reported debt	72.4	72.5	75.4	70.9
Power purchase agreements	48.4	50.2	50.2	23.6
Asset retirement obligations	33.6	34.2	41.1	37.4
Total adjustments	693.4	412.9	321.7	288.4
Adjusted Debt	\$ 3,904.9	\$ 4,065.8	\$ 4,118.1	\$ 4,264.2
Total common shareholders' equity				
	\$ 2,550.6	\$ 2,792.5	\$ 2,885.9	\$ 2,879.7
Noncontrolling interest	1.0	1.2	1.2	1.1
Total cumulative preferred stock	39.0	39.0	39.0	39.0
Total equity	2,590.6	2,832.7	2,926.1	2,919.8
Adjustments to reconcile total equity to adjusted equity:				
Intermediate hybrids reported as debt		287.5	287.5	287.5
Intermediate hybrids reported as equity	(19.5)	(19.5)	(19.5)	(19.5)
Total adjustments	(19.5)	268.0	268.0	268.0
Adjusted Equity	\$ 2,571.1	\$ 3,100.7	\$ 3,194.1	\$ 3,187.8
Total Adjusted Capitalization	\$ 6,476.0	\$ 7,166.5	\$ 7,312.2	\$ 7,452.0
Adjusted Debt / Total Adjusted Capitalization	60.3%	56.7%	56.3%	57.2%

* Last twelve months as of June 30, 2011

Great Plains Energy Reconciliation of Net Free Cash Flow ("NFCF") (Unaudited)

In Millions	2011 Projected		2012 Projected		2011-2012 Projected	
	Low	High	Low	High	Low	High
GAAP Net Cash From Operating Activities	\$ 468	\$ 493	\$ 646	\$ 661	\$ 1,114	\$ 1,154
GAAP Utility Capital Expenditures	(503)	(503)	(614)	(614)	(1,117)	(1,117)
GAAP Dividends Paid	(115)	(115)	(122)	(122)	(237)	(237)
Net Free Cash Flow	\$ (150)	\$ (125)	\$ (90)	\$ (75)	\$ (240)	\$ (200)

GAAP Dividends Paid includes an assumed \$0.83 of common dividends in 2011 and 2012 for illustrative purposes only and is not an indication of approval of such amount by the Company's Board of Directors

Net Free Cash Flow ("NFCF") is a financial measure that is not calculated in accordance with generally accepted accounting principles (GAAP). NFCF, as used by Great Plains Energy, is calculated from the Consolidated Statement of Cash Flows as Net Cash From Operating Activities less cash outflows for Utility Capital Expenditures and Dividends Paid. Management believes that NFCF is an important measurement in evaluating financing and/or dividend alternatives. The Company's definition of NFCF may differ from similar terms used by other companies.

Appendix B – Regulatory

Key Elements of 2006-11 Rate Cases

(in \$ millions)							
2006-2011 Rate Case Outcomes							
Rate Jurisdiction	Date Filed	Effective Date	Rate Base	Rate-making Equity Ratio	Return on Equity	Rate Increase Approved (\$)	Rate Increase Approved (%)
KCP&L – Missouri	2/1/2006	1/1/2007	\$1,270	53.69%	11.25%	\$50.6	10.5%
KCP&L – Missouri	2/1/2007	1/1/2008	\$1,298	57.62%	10.75%	\$35.3	6.5%
KCP&L – Missouri	9/5/2008	9/1/2009	\$1,496 ¹	46.63%	n/a ⁶	\$95.0	16.16%
→ KCP&L – Missouri	6/4/2010	5/4/2011	\$2,036	46.30%	10.00%	\$34.8	5.25%
KCP&L – Kansas	1/30/2006	1/1/2007	\$1,000 ¹	n/a	n/a ⁶	\$29.0	7.4%
KCP&L – Kansas	2/28/2007	1/1/2008	\$1,100 ¹	n/a	n/a ⁶	\$28.0	6.5%
KCP&L – Kansas	9/5/2008	8/1/2009	\$1,270 ¹	50.75%	n/a ⁶	\$59.0	14.4%
→ KCP&L – Kansas	12/17/2009	12/1/2010	\$1,781	49.66%	10.00%	\$22.0	4.6%
GMO - Missouri	7/3/2006	5/31/2007	\$1,104	48.17%	10.25%	\$58.8	Refer to fn. ³
GMO - Missouri	9/5/2008	9/1/2009	\$1,474 ¹	45.95%	n/a ⁶	\$63.0	Refer to fn. ⁴
→ GMO - Missouri	6/4/2010	6/25/2011	\$1,758	46.58%	10.00%	\$65.5 ²	Refer to fn. ⁵
GMO (Steam) – Missouri	9/5/2008	7/1/2009	\$14	n/a	n/a ⁶	\$1.0	2.3%

¹ Rate Base amounts are approximate amounts since the cases were black box settlements; ² Approximately \$7.7 million for L&P is deferred and will be phased in, including carrying costs, over a two-year period; ³ MPS 11.6%, L&P 12.8%; ⁴ MPS 10.5%, L&P 11.9%; ⁵ MPS 7.2%, L&P 21.3%; ⁶ Not available due to black box settlement

Regulatory Ratemaking Process – Missouri and Kansas

	Missouri	Kansas
Test Year	Historical	Historical
Statutory Requirement for Timing of Commission Order	11 months from filing date	240 days from filing date
Time Frame for True-Up	Varies by case depending on agreement between parties. Generally, certain data is updated as of 6 to 7 months after filing date	No formal true-up, but KCC Staff makes partial update as of the date of its audit work, generally 3 to 4 months after the filing date
Key Items Subject to True-Up	Known-and-measurable changes, e.g., plant & reserves, ADIT, revenues including off system sales, fuel & purchased power, payroll & benefits, depreciation, property taxes and other typical items	Although there is no formal true-up, KCC Staff adjusts the Company's case to more recent information for many of the same items updated in the Missouri jurisdictions. Staff's adjustments differ in each case

Currently–Utilized Methods of Cost Recovery

Jurisdiction	Revenue Requirement	Method of Recovery	Comment
KCP&L-KS	Fuel, purchased power and environmental consumables and certain transmission charges, less bulk power sales revenue	Quarterly adjustment based on forecasted cost, with annual true-up	Annual true-up adjusts prices for actual costs, offset by actual revenues from bulk power sales, protecting both customers and investors from forecast errors
KCP&L-KS	General capital investments	Traditional rate case, with predetermination and CWIP available by statute but at Company's election	While not a specific cost recovery mechanism, predetermination can define the ratemaking principles to be applied for future cost recovery of a specific project
KCP&L-KS KCP&L-MO GMO	Energy efficiency / DSM programs	Expenditures deferred as a regulatory asset for subsequent recovery. Deferred costs are recovered through separate kWh charge adjusted annually in KS	Smooths period expenses for DSM/energy efficiency programs, matching recognition of expense with recovery
KCP&L-KS KCP&L-MO GMO	Pension / OPEB expenses	Amount over/under base rates deferred as a regulatory asset/liability for subsequent recovery. Deferred costs are included in rate base in Missouri but not in Kansas	Smooths period expenses compared with amount in base rates, matching recognition of expense with recovery
KCP&L-KS KCP&L-MO GMO	Extraordinary storm damages	Able to request deferral of expenses for consideration of future recovery	Smooths period expenses for extraordinary storm restoration costs, with recovery considered in next case
KCPL-MO	Bulk Power Off System Sales Margins	Asymmetrical tracker to track excess margins over the amount in rates	Company returns to customers any excess non-firm off-system sales margins above the amount in rates. Any shortfall compared to the amount in rates is totally borne by the Company
KCP&L-MO GMO	Iatan 2 and Iatan 1 and 2 Common Plant O&M	Tracks actual O&M versus amount included in base rates	Provides recovery for new plant O&M until a history of actual costs is available
GMO	Fuel, purchased power and environmental consumables, less bulk power sales	Semi-annual adjustment based on actual cost compared with amounts in base rates, with annual true-up	Adjusts prices for over/under collection, protecting both customers and investors

Other Available Methods of Regulatory Cost Recovery

Jurisdiction	Cost Recovery Method	Authorized by Statute?	Precedent for Use in State?	Comment
Kansas	Environmental Cost Recovery Rider (ECRR)	No	Yes	Allows separate annually-adjusted per-kWh charge to reflect capital costs for investments in environmental controls. Can be initiated outside of a general rate case. Requested for LaCygne project
Kansas	Construction Work in Progress (CWIP)	Yes	Yes	Allows inclusion in rate base and base rates of capital costs for investments not yet completed and in-service. Must be requested in a general rate case
Kansas	Transmission Delivery Charge (TDC) Rider	Yes	Yes	Allows separate annually-adjusted per-kWh charge for recovery of transmission system operating costs. Can be initiated outside of a general rate case
Kansas	Property Tax Surcharge	Yes	Yes	Allows separate annually-adjusted (+/-) per-kWh charge to recover incremental actual property tax costs. Can be initiated outside of a general rate case

Other Available Methods of Regulatory Cost Recovery

Jurisdiction	Revenue Requirement	Authorized by Statute?	Precedent for Use in State?	Comment
Missouri	Environmental Cost Recovery Mechanism (ECRM)	Yes	No	Allows periodic rate adjustments to reflect net increases or decreases in prudently incurred costs directly related to compliance with environmental laws, regulations or rules. Must initiate in a general rate case
Missouri – KCP&L	Fuel, purchased power and environmental consumables, less bulk power sales using either a Fuel Adjustment Clause (FAC) or an Interim Energy Charge (IEC)	Yes	Yes	Adjusts rates for increases and decreases in prudently-incurred costs. As part of the CEP, KCP&L agreed not to seek a FAC until 2015. However, may request an IEC in a general rate case
Missouri	Expense Trackers as authorized by the Commission based on individual utility circumstances	No	Yes	A utility may request a tracker to capture increases or decreases from amounts in rates
Missouri	Renewable Energy Standard Rate Adjustment (RESRAM) – provides recovery of renewable energy standard (RES) compliance costs	Yes	No	Allows recovery of prudently-incurred RES capital and expense, including solar rebates, to meet RES
Missouri	Demand Side Programs Investment Mechanisms (DSIM) – provides recovery of performance incentives, sharing of benefits, cost recovery and lost revenues	Yes	No	Allows periodic rate adjustments related to recovery of costs and utility incentives for investments in demand-side programs. Balances supply-side and demand-side plans by utility

Appendix C – Guidance Assumptions

Guidance Assumptions KCP&L-MO Wholesale Margin

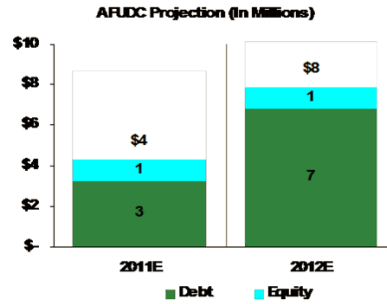
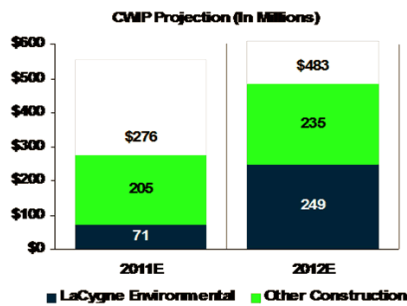
- KCP&L Missouri ("KCP&L-MO") customer rates are set assuming KCP&L earns a prescribed level of wholesale margin* ("cap") to achieve its revenue requirement
 - If cap is exceeded, excess margin booked as a regulatory liability to be returned, with interest, to customers in the next rate case
 - If cap not achieved, KCP&L falls short of its revenue requirement with no regulatory mechanism to recover the shortfall
 - Two distinct caps apply to 2011
 - \$11.7M Pro-rated cap for September 2010 to April 2011
 - No excess margin booked as a regulatory liability in 2010 or 2011
 - \$45.9M Annual cap for May 2011 to April 2012
 - Excess margin books as a regulatory liability whenever cap is exceeded, which could be in 2011 or 2012
 - Earnings and cash in a fiscal year could be significantly impacted by timing of wholesale margins
 - \$45.9M Annual cap continues in May 2012, absent a new rate case

*Also referred to as non-firm wholesale electric sales margin (wholesale margin offset) in the most recent 10Q

Guidance Assumptions Depreciation, CWIP, AFUDC

- Depreciation and Amortization
 - KCP&L-MO regulatory amortization of \$3.5M/month ended May 2011
 - KS Iatan 2 depreciation for full year 2011 and 2012
 - MO Iatan 2 traditional depreciation for partial year 2011, full year 2012
 - KCP&L began in May 2011, GMO began in June 2011
 - Change in depreciation rates from rate case orders
 - Depreciation growing for plant placed in service and not in current rates

- Construction Work in Progress (CWIP) / Accumulated Funds Used During Construction (AFUDC)



Guidance Assumptions Income Taxes

- Effective income tax rate of approximately 33% for 2011 and 2012
- Federal/State combined statutory rate of approximately 38.9% impacted by:
 - AFUDC Equity (non-taxable)
 - Wind Production Tax Credits (“PTC”)
 - Advanced Coal Investment tax credits
- Do not expect to generate significant income tax liability or pay significant income taxes during 2011 and 2012 due to:
 - Bonus depreciation of approximately \$300M in 2011 and \$200M in 2012
 - Differences between book and tax depreciation, primarily related to seven year depreciable tax life for pollution controls recently placed in service at Iatan facilities
 - Impacts from 2011 Special Factors
 - Ongoing wind PTC

Guidance Assumptions Deferred Income Taxes

- Year-end 2010 deferred tax income taxes include:
 - \$204.3M tax credit carry forwards primarily related to Advanced Coal Investment Tax Credits, wind Production Tax Credits, and Alternative Minimum Tax ("AMT") credits (\$89.8M related to GMO acquisition)
 - Coal and wind credits expire in 2028 to 2030
 - AMT credits do not expire
 - \$1.0M Federal and state valuation allowance
 - \$409.2M Net Operating Loss ("NOL") carry forward with approximately \$366.9M related to the GMO acquisition
 - Federal NOL carry forwards expire in years 2023 to 2030
 - \$25.7M state valuation allowance
- Do not expect to generate significant income tax liability during 2011 and 2012 (see previous slide)
- Do not anticipate paying significant income taxes through the end of 2015
 - Expect to utilize year-end 2010 NOL and tax credit carry forwards, net of valuation allowances
 - Expect to generate additional NOL in 2011 and 2012
 - Estimate that impact of bonus depreciation in 2011 and 2012 has delayed paying significant income taxes by about two years