

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

**FORM S-8**

**REGISTRATION STATEMENT**

**UNDER THE SECURITIES ACT OF 1933**

**GREAT PLAINS ENERGY INCORPORATED**

(Exact name of registrant as specified in its charter)

**Missouri**  
(State or other jurisdiction of incorporation or organization)

**43-1916803**  
(I.R.S. Employer  
Identification Number)

**1200 Main Street**  
**Kansas City, Missouri**  
(Address of Principal Executive Offices)

**64105**  
(Zip Code)

**GREAT PLAINS ENERGY INCORPORATED**  
**401(K) SAVINGS PLAN**  
**(FORMERLY KNOWN AS GREAT PLAINS ENERGY INCORPORATED CASH OR DEFERRED ARRANGEMENT (“EMPLOYEE SAVINGS PLUS”))**

(Full title of the plan)

**HEATHER A HUMPHREY**  
**GENERAL COUNSEL AND SENIOR VICE PRESIDENT – HUMAN RESOURCES**  
**1200 MAIN STREET**  
**KANSAS CITY, MISSOURI 64105**  
(Name and address of agent for service)

**(816) 556-2200**  
(Telephone number, including area code, of agent for service)

**CALCULATION OF REGISTRATION FEE**

<b>Title of Each Class of Securities To Be Registered</b>	<b>Amount to be Registered(1)</b>	<b>Proposed Maximum Offering Price Per Share (2)(3)</b>	<b>Proposed Maximum Aggregate Offering Price (2) (3)</b>	<b>Amount of Registration Fee</b>
Common Stock, no par value	2,000,000 shares	\$20.05	\$40,100,000.00	\$4,595.46

- (1) This amount represents shares available for future issuance under the Company’s 401(k) Savings Plan (formerly known as the Company’s Cash or Deferred Arrangement (“Employee Savings Plus”)). Pursuant to Rule 416(c) under the Securities Act of 1933, as amended, this Registration Statement also covers an indeterminate amount of interests to be offered or sold pursuant to the employee benefit plan described herein.
- (2) The estimated price of \$20.05 per share was computed in accordance with paragraphs (c) and (h) of Rule 457 under the Securities Act by averaging the high and low sales prices of Great Plains Energy Incorporated Common Stock as quoted on the New York Stock Exchange on March 19, 2012.
- (3) Estimated solely for the purpose of calculating the registration fee.

## EXPLANATORY NOTE

The purpose of this Registration Statement is to register 2,000,000 additional shares of Common Stock, no par value (the "Common Stock"), of Great Plains Energy Incorporated, a Missouri corporation (the "Company"), for issuance under the Company's 401(k) Savings Plan (formerly known as the Company's Cash or Deferred Arrangement ("Employee Savings Plus")) (hereinafter referred to as the "Plan"). The Plan was originally filed pursuant to Registration Statement No. 33-17403. Additional securities were registered for use in the Plan pursuant to Registration Statement No. 33-33377, Registration Statement No. 33-42187, Registration Statement No. 33-62942, Registration Statement No. 33-58917, Registration No. 333-49353, Registration No. 333-32636, Registration No. 333-98781, Registration No. 333-120172, Registration No. 333-132828 and Registration No. 333-147939. The appropriate portions of those Registration Statements are incorporated by reference. In accordance with General Instruction E of Form S-8, the information required by Part II is omitted, except as supplemented by the information set forth below.

### PART I

#### INFORMATION REQUIRED IN THE SECTION 10(a) PROSPECTUS

##### Item 1. Plan Information.\*\*

##### Item 2. Registrant Information and Employee Plan Annual Information.\*\*

\*\* The documents containing the information specified in Part I of Form S-8 will be delivered to participants in the Plan, covered by this Registration Statement, in accordance with Form S-8 and Rule 428(b)(1) under the Securities Act of 1933, as amended (the "Securities Act"). Such documents are not required to be, and are not, filed with the Securities and Exchange Commission (the "Commission") either as part of this Registration Statement or as prospectuses or prospectus supplements pursuant to Rule 424 of the Securities Act. These documents and the documents incorporated by reference into this Registration Statement pursuant to Item 3 of Part II of this Registration Statement, taken together, constitute a prospectus that meets the requirements of Section 10(a) of the Securities Act.

### PART II

#### INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

##### Item 3. Incorporation of Documents by Reference.

The following documents filed with the Commission by the Company or Plan, pursuant to the Exchange Act of 1934, as amended (the "Exchange Act"), are incorporated by reference in this Registration Statement:

- The Company's annual report on Form 10-K for the year ended December 31, 2011, filed with the Commission on February 28, 2012, including portions of the Company's Definitive Proxy Statement on Schedule 14A, filed with the Commission on March 21, 2012, that are incorporated by reference therein;
- The Company's Current Reports on Form 8-K filed with the Commission on February 10, 2012, February 21, 2012, and March 23, 2012;
- The description of the Company's Common Stock included under the caption "Description of Common Stock" in the Registration Statement on Form S-3 of the Company (Registration No. 333-180105) filed with the Commission on March 14, 2012, including any amendment or report filed for the purpose of updating such information; and

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- The Plan's annual report on Form 11-K for the year ended December 31, 2010, filed with the Commission on June 20, 2011.

All documents subsequently filed by the Company pursuant to Sections 13(a), 13(c), 14 and 15(d) of the Exchange Act, prior to the filing of a post-effective amendment to this Registration Statement, which indicates that all securities offered have been sold or which deregisters all securities then remaining unsold, shall be deemed to be incorporated by reference herein and to be a part hereof from the date of filing of such documents with the Commission.

Any statement contained in a document incorporated or deemed to be incorporated by reference in this Registration Statement shall be deemed to be modified or superseded for purposes of this Registration Statement to the extent that a statement contained in this Registration Statement, or in any other subsequently filed document that also is or is deemed to be incorporated by reference in this Registration Statement, modifies or supersedes such prior statement. Any statement contained in this Registration Statement shall be deemed to be modified or superseded to the extent that a statement contained in a subsequently filed document that is or is deemed to be incorporated by reference in this Registration Statement modifies or supersedes such prior statement. Any statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this Registration Statement.

Upon written or oral request, any of the documents incorporated by reference in Item 3 of Part II of this Registration Statement (which documents are incorporated by reference in the Section 10(a) prospectus), other documents required to be delivered to eligible employees pursuant to Rule 428(b) of the Securities Act or additional information about the Plan are available without charge to participants by contacting Great Plains Energy Incorporated, 1200 Main Street, Kansas City, Missouri 64105 (Telephone No.: 816-556-2200), Attention: Corporate Secretary.

##### Item 4. Description of Securities.

Not applicable.

## Item 5. Interests of Named Experts and Counsel.

The validity of the shares of common stock offered hereby has been passed upon for us by Heather A. Humphrey, the Company's General Counsel and Senior Vice President – Human Resources. A copy of this opinion is attached as Exhibit 5.1 to this Registration Statement. Ms. Humphrey beneficially owns or has rights to acquire an aggregate of less than 1% of the total outstanding Common Stock of the Company.

## Item 6. Indemnification of Directors and Officers.

Missouri Revised Statutes (“RSMo”) Section 351.355 (2011) provides as follows:

1. A corporation created under the laws of this state may indemnify any person who was or is a party or is threatened to be made a party to any threatened, pending or completed action, suit, or proceeding, whether civil, criminal, administrative or investigative, other than an action by or in the right of the corporation, by reason of the fact that he or she is or was a director, officer, employee or agent of the corporation, or is or was serving at the request of the corporation as a director, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise, against expenses, including attorneys' fees, judgments, fines and amounts paid in settlement actually and reasonably incurred by him or her in connection with such action, suit, or proceeding if he or she acted in good faith and in a manner he or she reasonably believed to be in or not opposed to the best interests of the corporation, and, with respect to any criminal action or proceeding, had no reasonable cause to believe his or her conduct was unlawful. The termination of any action, suit, or proceeding by judgment, order, settlement, conviction, or upon a plea of nolo contendere or its equivalent, shall not, of itself, create a presumption that the person did not act in good faith and in a manner which he or she reasonably believed to be in or not opposed to the best interests of the corporation, and, with respect to any criminal action or proceeding, had reasonable cause to believe that his or her conduct was unlawful.

2. The corporation may indemnify any person who was or is a party or is threatened to be made a party to any threatened, pending or completed action or suit by or in the right of the corporation to procure a judgment in its favor by reason of the fact that he or she is or was a director, officer, employee or agent of the corporation, or is or was serving at the request of the corporation as a director, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise against expenses, including attorneys' fees, and amounts paid in settlement actually and reasonably incurred by him or her in connection with the defense or settlement of the action or suit if he or she acted in good faith and in a manner he or she reasonably believed to be in or not opposed to the best interests of the corporation; except that no indemnification shall be made in respect of any claim, issue or matter as to which such person shall have been adjudged to be liable for negligence or misconduct in the performance of his or her duty to the corporation unless and only to the extent that the court in which the action or suit was brought determines upon application that, despite the adjudication of liability and in view of all the circumstances of the case, the person is fairly and reasonably entitled to indemnity for such expenses which the court shall deem proper.

3. Except as otherwise provided in the articles of incorporation or the bylaws, to the extent that a director, officer, employee or agent of the corporation has been successful on the merits or otherwise in defense of any action, suit, or proceeding referred to in subsections 1 and 2 of this section, or in defense of any claim, issue or matter therein, he or she shall be indemnified against expenses, including attorneys' fees, actually and reasonably incurred by him or her in connection with the action, suit, or proceeding.

4. Any indemnification under subsections 1 and 2 of this section, unless ordered by a court, shall be made by the corporation only as authorized in the specific case upon a determination that indemnification of the director, officer, employee or agent is proper in the circumstances because he or she has met the applicable standard of conduct set forth in this section. The determination shall be made by the board of directors by a majority vote of a quorum consisting of directors who were not parties to the action, suit, or proceeding, or if such a quorum is not obtainable, or even if obtainable a quorum of disinterested directors so directs, by independent legal counsel in a written opinion, or by the shareholders.

5. Expenses incurred in defending any civil, criminal, administrative, or investigative action, suit or proceeding may be paid by the corporation in advance of the final disposition of the action, suit, or proceeding as authorized by the board of directors in the specific case upon receipt of an undertaking by or on behalf of the director, officer, employee or agent to repay such amount unless it shall ultimately be determined that he or she is entitled to be indemnified by the corporation as authorized in this section.

6. The indemnification provided by this section shall not be deemed exclusive of any other rights to which those seeking indemnification may be entitled under the articles of incorporation or bylaws or any agreement, vote of shareholders or disinterested directors or otherwise, both as to action in his or her official capacity and as to action in another capacity while holding such office, and shall continue as to a person who has ceased to be a director, officer, employee or agent and shall inure to the benefit of the heirs, executors and administrators of such a person.

7. A corporation created under the laws of this state shall have the power to give any further indemnity, in addition to the indemnity authorized or contemplated under other subsections of this section, including subsection 6, to any person who is or was a director, officer, employee or agent, or to any person who is or was serving at the request of the corporation as a director, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise, provided such further indemnity is either (i) authorized, directed, or provided for in the articles of incorporation of the corporation or any duly adopted amendment thereof or (ii) is authorized, directed, or provided for in any bylaw or agreement of the corporation which has been adopted by a vote of the shareholders of the corporation, and provided further that no such indemnity shall indemnify any person from or on account of such person's conduct which was finally adjudged to have been knowingly fraudulent, deliberately dishonest or willful misconduct. Nothing in this subsection shall be deemed to limit the power of the corporation under subsection 6 of this section to enact bylaws or to enter into agreements without shareholder adoption of the same.

8. The corporation may purchase and maintain insurance or another arrangement on behalf of any person who

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is or was a director, officer, employee or agent of the corporation, or is or was serving at the request of the corporation as a director, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise against any liability asserted against him or her and incurred by him or her in any such capacity, or arising out of his or her status as such, whether or not the corporation would have the power to indemnify him or her against such liability under the provisions of this section. Without limiting the power of the corporation to procure or maintain any kind of insurance or other arrangement the corporation may for the benefit of persons indemnified by the corporation create a trust fund, establish any form of self insurance, secure its indemnity

obligation by grant of a security interest or other lien on the assets of the corporation, or establish a letter of credit, guaranty, or surety arrangement. The insurance or other arrangement may be procured, maintained, or established within the corporation or with any insurer or other person deemed appropriate by the board of directors regardless of whether all or part of the stock or other securities of the insurer or other person are owned in whole or in part by the corporation. In the absence of fraud the judgment of the board of directors as to the terms and conditions of the insurance or other arrangement and the identity of the insurer or other person participating in an arrangement shall be conclusive and the insurance or arrangement shall not be voidable and shall not subject the directors approving the insurance or arrangement to liability on any ground regardless of whether directors participating in the approval are beneficiaries of the insurance arrangement.

9. Any provision of this chapter to the contrary notwithstanding, the provisions of this section shall apply to all existing and new domestic corporations, including but not limited to banks, trust companies, insurance companies, building and loan associations, savings bank and safe deposit companies, mortgage loan companies, corporations formed for benevolent, religious, scientific or educational purposes and nonprofit corporations.

10. For the purpose of this section, references to “the corporation” include all constituent corporations absorbed in a consolidation or merger as well as the resulting or surviving corporation so that any person who is or was a director, officer, employee or agent of such a constituent corporation or is or was serving at the request of such constituent corporation as a director, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise shall stand in the same position under the provisions of this section with respect to the resulting or surviving corporation as he or she would if he or she had served the resulting or surviving corporation in the same capacity.

11. For purposes of this section, the term “other enterprise” shall include employee benefit plans; the term “fines” shall include any excise taxes assessed on a person with respect to an employee benefit plan; and the term “serving at the request of the corporation” shall include any service as a director, officer, employee or agent of the corporation which imposes duties on, or involves services by, such director, officer, employee, or agent with respect to an employee benefit plan, its participants, or beneficiaries; and a person who acted in good faith and in a manner he or she reasonably believed to be in the interest of the participants and beneficiaries of an employee benefit plan shall be deemed to have acted in a manner “not opposed to the best interests of the corporation” as referred to in this section.

The officers and directors of the Company have entered into indemnification agreements with the Company indemnifying such officers and directors to the extent allowed under the above RSMo Section 351.355 (2011).

Article XIII of the Articles of Incorporation of the Company provides as follows:

#### ARTICLE THIRTEEN.

(a) **Right to Indemnification.** Each person who was or is made a party or is threatened to be made a party to any action, suit or proceeding, whether civil, criminal, administrative or investigative, by reason of the fact that he or she is or was a director or officer of the Company or is or was an employee of the Company acting within the scope and course of his or her employment or is or was serving at the request of the Company as a director, officer, employee or agent of another corporation or of a partnership, joint venture, trust or other enterprise, including service with respect to employee benefit plans, shall be indemnified and held harmless by the Company to the fullest extent authorized by The Missouri General and Business Corporation Law, as the same exists or may hereafter be amended, against all expense, liability and loss (including attorneys’ fees, judgments, fines, ERISA excise taxes or penalties and amounts paid to or to be paid in settlement) actually and reasonably incurred by such person in

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connection therewith. The Company may in its discretion by action of its Board of Directors provide indemnification to agents of the Company as provided for in this ARTICLE THIRTEEN. Such indemnification shall continue as to a person who has ceased to be a director, officer, employee or agent and shall inure to the benefit of his or her heirs, executors and administrators.

(b) **Rights Not Exclusive.** The indemnification and other rights provided by this ARTICLE THIRTEEN shall not be deemed exclusive of any other rights to which a person may be entitled under any applicable law, By-laws of the Company, agreement, vote of shareholders or disinterested directors or otherwise, both as to action in such person’s official capacity and as to action in any other capacity while holding the office of director or officer, and the Company is hereby expressly authorized by the shareholders of the Company to enter into agreements with its directors and officers which provide greater indemnification rights than that generally provided by The Missouri General and Business Corporation Law; provided, however, that no such further indemnity shall indemnify any person from or on account of such director’s or officer’s conduct which was finally adjudged to have been knowingly fraudulent, deliberately dishonest or willful misconduct. Any such agreement providing for further indemnity entered into pursuant to this ARTICLE THIRTEEN after the date of approval of this ARTICLE THIRTEEN by the Company’s shareholders need not be further approved by the shareholders of the Company in order to be fully effective and enforceable.

(c) **Insurance.** The Company may purchase and maintain insurance on behalf of any person who was or is a director, officer, employee or agent of the Company, or was or is serving at the request of the Company as a director, officer, employee or agent of another company, partnership, joint venture, trust or other enterprise against any liability asserted against or incurred by such person in any such capacity, or arising out of his or her status as such, whether or not the Company would have the power to indemnify such person against such liability under the provisions of this ARTICLE THIRTEEN.

(d) **Amendment.** This ARTICLE THIRTEEN may be hereafter amended or repealed; however, no amendment or repeal shall reduce, terminate or otherwise adversely affect the right of a person entitled to obtain indemnification or an advance of expenses with respect to an action, suit or proceeding that pertains to or arises out of actions or omissions that occur prior to the later of (a) the effective date of such amendment or repeal; (b) the expiration date of such person’s then current term of office with, or service for, the Company (provided such person has a stated term of office or service and completes such term); or (c) the effective date such person resigns his or her office or terminates his or her service (provided such person has a stated term of office or service but resigns prior to the expiration of such term).

Pursuant to RSMo Section 351.355 (2011) and the Articles of Incorporation of the Company, the Company maintains directors’ and officers’ liability coverage.

#### **Item 7. Exemption From Registration Claimed.**

Not applicable.

## Item 8. Exhibits.

Exhibit Number	Description
4.1*	Articles of Incorporation of Great Plains Energy Incorporated as amended effective May 7, 2009 (Exhibit 3.1.1 to Form 10-Q for the quarter ended March 31, 2009).
4.2*	By-Laws of Great Plains Energy Incorporated, as amended May 4, 2010 (Exhibit 3.1 to Form 8-K filed with the Commission on May 6, 2010).
5.1	Opinion of Heather A. Humphrey, General Counsel and Senior Vice President – Human Resources of Great Plains Energy Incorporated, regarding the validity of the securities.
23.1	Consent of Deloitte & Touche LLP.
23.2	Consent of Heather A. Humphrey, General Counsel and Senior Vice President – Human Resources of Great Plains Energy Incorporated (included in Exhibit 5.1).
24.1	Powers of Attorney.

\* Incorporated by reference herein as indicated.

## Item 9. Undertakings.

(a) The undersigned Registrant hereby undertakes:

(1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:

(i) To include any prospectus required in Section 10(a)(3) of the Securities Act of 1933;

(ii) To reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than 20 percent change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement; and

(iii) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement;

*provided, however*, that paragraphs (a)(1)(i) and (a)(1)(ii) of this section do not apply if the registration statement is on Form S-8 and the information required to be included in a post-effective amendment by those paragraphs is contained in reports filed with or furnished to Commission by the Registrant pursuant to Section 13 or Section 15(d) of the Securities Exchange Act of 1934 that are incorporated by reference in the registration statement;

(2) That, for the purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof; and

(3) To remove from registration by means of a post-effective amendment any of the securities being registered

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which remain unsold at the termination of the offering.

(b) The undersigned Registrant hereby further undertakes, that, for purposes of determining any liability under the Securities Act, each filing of the Registrant's annual report pursuant to Section 13(a) or Section 15(d) of the Exchange Act (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Exchange Act) that is incorporated by reference in the registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

(c) Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers and controlling persons of the Registrant pursuant to the provisions described under Item 6 above, or otherwise, the Registrant has been advised that in the opinion of the Commission such indemnification is against public policy as expressed in the Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the Registrant of expenses incurred or paid by a director, officer or controlling person of the Registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the Registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Act and will be governed by the final adjudication of such issue.

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## SIGNATURES

**The Registrant.** Pursuant to the requirements of the Securities Act of 1933, as amended, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized in the city of Kansas City, State of Missouri, on this 23<sup>rd</sup> day of March, 2012.

### GREAT PLAINS ENERGY INCORPORATED

By: /s/ Michael J. Chesser  
Name: Michael J. Chesser  
Title: Chairman of the Board and Chief Executive Officer

Pursuant to the requirements of the Securities Act, this registration statement has been signed by the following persons in the capacities and on the date indicated.

<u>Signature</u>	<u>Title</u>	<u>Date</u>	
/s/ Michael J. Chesser Michael J. Chesser	Chairman of the Board and Chief Executive Officer (Principal Executive Officer)	March 23, 2012	
/s/ James C. Shay James C. Shay	Senior Vice President – Finance and Strategic Development and Chief Financial Officer (Principal Financial Officer)	March 23, 2012	
/s/ Lori A. Wright Lori A. Wright	Vice President – Business Planning and Controller (Principal Accounting Officer)	March 23, 2012	
/s/ Terry Bassham Terry Bassham	Director	March 23, 2012	
*	Director	March 23, 2012	
David L. Bodde	*	Director	March 23, 2012
Randall C. Ferguson, Jr.	*	Director	March 23, 2012
Gary D. Forsee	*	Director	March 23, 2012
Thomas D. Hyde	*	Director	March 23, 2012
James A. Mitchell	*	Director	March 23, 2012
William C. Nelson	*	Director	March 23, 2012
John J. Sherman	*	Director	March 23, 2012
Linda H. Talbott	*	Director	March 23, 2012
Robert H. West	*	Director	March 23, 2012

\*By: /s/ Michael J. Chesser  
Michael J. Chesser  
Attorney-in-fact

**The Plan.** Pursuant to the requirements of the Securities Act of 1933, the Administrative Committee of the Great Plains Energy Incorporated 401(k) Savings Plan (formerly known as the Great Plains Energy Incorporated Cash or Deferred Arrangement (“Employee Savings Plus”)) has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the city of Kansas City, State of Missouri, on the 23<sup>rd</sup> day of March, 2012.

### GREAT PLAINS ENERGY INCORPORATED 401(k) SAVINGS PLAN

By: /s/ Charles A. Caisley  
Name: Charles A. Caisley

By: /s/ Ellen E. Fairchild  
Name: Ellen E. Fairchild

By: /s/ Heather A. Humphrey  
Name: Heather A. Humphrey

By: /s/ John M. Wallis

Name: John M. Wallis

By: /s/ Lori A. Wright  
Name: Lori A. Wright

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## INDEX OF EXHIBITS

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24.1	Powers of Attorney.

\* Incorporated by reference herein as indicated.

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March 23, 2012

Great Plains Energy Incorporated  
1200 Main Street  
Kansas City, MO 64105

Re: Great Plains Energy Incorporated (the "Company") Registration Statement on Form S-8 Relating to 2,000,000 Additional Shares of Common Stock, Including Related Plan Interests

Ladies and Gentlemen:

I have acted as counsel to the Company in connection with the Registration Statement on Form S-8 (the "Registration Statement") to be filed with the Securities and Exchange Commission under the Securities Act of 1933, as amended, relating to the registration of (i) 2,000,000 additional shares (the "Shares") of Company common stock in connection with the Company's 401(k) Savings Plan (formerly known as the Company's Cash or Deferred Arrangement ("Employee Savings Plus")) (hereinafter referred to as the "Plan"), and (ii) an indeterminate amount of interests in the Plan.

I am familiar with the Articles of Incorporation and the By-laws of the Company and the resolutions of the Board of Directors of the Company relating to the Plan and the Registration Statement. I have examined originals, or copies of originals certified or otherwise identified to my satisfaction, of such records of the Company and other corporate documents, have examined such questions of law and have satisfied myself as to such matters of fact as I have considered relevant and necessary as a basis for the opinion set forth herein. I have assumed the authenticity of all documents submitted to me as originals, the genuineness of all signatures, the legal capacity of all natural persons other than the officers or directors of the Company and the conformity with the original documents of any copies thereof submitted to me for my examination.

Based upon the foregoing, I am of the opinion that each Share will be legally issued, fully paid and non-assessable when such Share has been duly issued in accordance with the provisions of the Plan.

I am licensed to practice law in the State of Missouri and the foregoing opinions are limited to the laws of the State of Missouri. I assume no obligations to update the information in this opinion letter following the Registration Statement's date of effectiveness.

I hereby consent to the filing of this opinion as an exhibit to the Registration Statement and to the reference to this opinion in the Prospectus contained in the Registration Statement.

Yours truly,

/s/ Heather A. Humphrey  
Heather A. Humphrey  
General Counsel and  
Senior Vice President – Human Resources

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**CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

We consent to the incorporation by reference in this Registration Statement on Form S-8 of our reports dated February 28, 2012, relating to the financial statements and financial statement schedules of Great Plains Energy Incorporated and subsidiaries and the effectiveness of Great Plains Energy Incorporated and subsidiaries' internal control over financial reporting, appearing in the Annual Report on Form 10-K of Great Plains Energy Incorporated and subsidiaries for the year ended December 31, 2011.

/s/DELOITTE & TOUCHE LLP

Kansas City, Missouri

March 23, 2012

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POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS:

That the undersigned, a Director of Great Plains Energy Incorporated, a Missouri corporation, does hereby constitute and appoint Michael J. Chesser or Jaileah X. Huddleston, his true and lawful attorney and agent, with full power and authority to execute in the name and on behalf of the undersigned as such director a Registration Statement on Form S-8 and all amendments thereto, hereby granting unto such attorney and agent full power of substitution and revocation in the premises; and hereby ratifying and confirming all that such attorney and agent may do or cause to be done by virtue of these presents.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 7th day of February, 2012.

/s/ David L. Bodde  
David L. Bodde

STATE OF MISSOURI    )  
                                  )            ss  
COUNTY OF JACKSON )

On this 7th day of February, 2012, before me the undersigned, a Notary Public, personally appeared David L. Bodde, to be known to be the person described in and who executed the foregoing instrument, and who, being by me first duly sworn, acknowledged that he/she executed the same as his/her free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal the day and year last above written.

/s/ Annette G. Carter  
Notary Public

My Commission Expires: October 6, 2013





POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS:

That the undersigned, a Director of Great Plains Energy Incorporated, a Missouri corporation, does hereby constitute and appoint Michael J. Chesser or Jaileah X. Huddleston, his true and lawful attorney and agent, with full power and authority to execute in the name and on behalf of the undersigned as such director a Registration Statement on Form S-8 and all amendments thereto, hereby granting unto such attorney and agent full power of substitution and revocation in the premises; and hereby ratifying and confirming all that such attorney and agent may do or cause to be done by virtue of these presents.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 7th day of February, 2012.

/s/ Gary D. Forsee  
Gary D. Forsee

STATE OF MISSOURI    )  
                                  )  
COUNTY OF JACKSON )            ss

On this 7th day of February, 2012, before me the undersigned, a Notary Public, personally appeared Gary D. Forsee, to be known to be the person described in and who executed the foregoing instrument, and who, being by me first duly sworn, acknowledged that he/she executed the same as his/her free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal the day and year last above written.

/s/ Annette G. Carter  
Notary Public

My Commission Expires: October 6, 2013

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POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS:

That the undersigned, a Director of Great Plains Energy Incorporated, a Missouri corporation, does hereby constitute and appoint Michael J. Chesser or Jaileah X. Huddleston, his true and lawful attorney and agent, with full power and authority to execute in the name and on behalf of the undersigned as such director a Registration Statement on Form S-8 and all amendments thereto, hereby granting unto such attorney and agent full power of substitution and revocation in the premises; and hereby ratifying and confirming all that such attorney and agent may do or cause to be done by virtue of these presents.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 7th day of February, 2012.

/s/ Randall C. Ferguson, Jr.  
Randall C. Ferguson, Jr.

STATE OF MISSOURI     )  
                                  )            Ss  
COUNTY OF JACKSON    )

On this 7th day of February, 2012, before me the undersigned, a Notary Public, personally appeared Randall C. Ferguson, Jr., to be known to be the person described in and who executed the foregoing instrument, and who, being by me first duly sworn, acknowledged that he/she executed the same as his/her free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal the day and year last above written.

/s/ Annette G. Carter  
Notary Public

My Commission Expires: October 6, 2013

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POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS:

That the undersigned, a Director of Great Plains Energy Incorporated, a Missouri corporation, does hereby constitute and appoint Michael J. Chesser or Jaileah X. Huddleston, his true and lawful attorney and agent, with full power and authority to execute in the name and on behalf of the undersigned as such director a Registration Statement on Form S-8 and all amendments thereto, hereby granting unto such attorney and agent full power of substitution and revocation in the premises; and hereby ratifying and confirming all that such attorney and agent may do or cause to be done by virtue of these presents.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 7th day of February, 2012.

/s/ John J. Sherman  
John J. Sherman

STATE OF MISSOURI    )  
                                  )  
COUNTY OF JACKSON )            ss

On this 7th day of February, 2012, before me the undersigned, a Notary Public, personally appeared John J. Sherman, to be known to be the person described in and who executed the foregoing instrument, and who, being by me first duly sworn, acknowledged that he/she executed the same as his/her free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal the day and year last above written.

/s/ Annette G. Carter  
Notary Public

My Commission Expires: October 6, 2013

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POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS:

That the undersigned, a Director of Great Plains Energy Incorporated, a Missouri corporation, does hereby constitute and appoint Michael J. Chesser or Jaileah X. Huddleston, his true and lawful attorney and agent, with full power and authority to execute in the name and on behalf of the undersigned as such director a Registration Statement on Form S-8 and all amendments thereto, hereby granting unto such attorney and agent full power of substitution and revocation in the premises; and hereby ratifying and confirming all that such attorney and agent may do or cause to be done by virtue of these presents.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 7th day of February, 2012.

/s/ James A. Mitchell  
James A. Mitchell

STATE OF MISSOURI    )  
                                  )  
                                  )            ss  
COUNTY OF JACKSON )

On this 7th day of February, 2012, before me the undersigned, a Notary Public, personally appeared James A. Mitchell, to be known to be the person described in and who executed the foregoing instrument, and who, being by me first duly sworn, acknowledged that he/she executed the same as his/her free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal the day and year last above written.

/s/ Annette G. Carter  
Notary Public

My Commission Expires: October 6, 2013

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POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS:

That the undersigned, a Director of Great Plains Energy Incorporated, a Missouri corporation, does hereby constitute and appoint Michael J. Chesser or Jaileah X. Huddleston, his true and lawful attorney and agent, with full power and authority to execute in the name and on behalf of the undersigned as such director a Registration Statement on Form S-8 and all amendments thereto, hereby granting unto such attorney and agent full power of substitution and revocation in the premises; and hereby ratifying and confirming all that such attorney and agent may do or cause to be done by virtue of these presents.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 7th day of February, 2012.

/s/ William C. Nelson  
William C. Nelson

STATE OF MISSOURI     )  
                                  )            ss  
COUNTY OF JACKSON )

On this 7th day of February, 2012, before me the undersigned, a Notary Public, personally appeared William C. Nelson, to be known to be the person described in and who executed the foregoing instrument, and who, being by me first duly sworn, acknowledged that he/she executed the same as his/her free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal the day and year last above written.

/s/ Annette G. Carter  
Notary Public

My Commission Expires: October 6, 2013

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POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS:

That the undersigned, a Director of Great Plains Energy Incorporated, a Missouri corporation, does hereby constitute and appoint Michael J. Chesser or Jaileah X. Huddleston, his true and lawful attorney and agent, with full power and authority to execute in the name and on behalf of the undersigned as such director a Registration Statement on Form S-8 and all amendments thereto, hereby granting unto such attorney and agent full power of substitution and revocation in the premises; and hereby ratifying and confirming all that such attorney and agent may do or cause to be done by virtue of these presents.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 7th day of February, 2012.

/s/ Linda H. Talbott  
Linda H. Talbott

STATE OF MISSOURI     )  
                                  )            ss  
COUNTY OF JACKSON )

On this 7th day of February, 2012, before me the undersigned, a Notary Public, personally appeared Linda H. Talbott, to be known to be the person described in and who executed the foregoing instrument, and who, being by me first duly sworn, acknowledged that he/she executed the same as his/her free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal the day and year last above written.

/s/ Annette G. Carter  
Notary Public

My Commission Expires: October 6, 2013

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POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS:

That the undersigned, a Director of Great Plains Energy Incorporated, a Missouri corporation, does hereby constitute and appoint Michael J. Chesser or Jaileah X. Huddleston, his true and lawful attorney and agent, with full power and authority to execute in the name and on behalf of the undersigned as such director a Registration Statement on Form S-8 and all amendments thereto, hereby granting unto such attorney and agent full power of substitution and revocation in the premises; and hereby ratifying and confirming all that such attorney and agent may do or cause to be done by virtue of these presents.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 7th day of February, 2012.

/s/ Robert H. West  
Robert H. West

STATE OF MISSOURI     )  
                                  )            Ss  
COUNTY OF JACKSON )

On this 7th day of February, 2012, before me the undersigned, a Notary Public, personally appeared Robert H. West, to be known to be the person described in and who executed the foregoing instrument, and who, being by me first duly sworn, acknowledged that he/she executed the same as his/her free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal the day and year last above written.

/s/ Annette G. Carter  
Notary Public

My Commission Expires: October 6, 2013

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POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS:

That the undersigned, a Director of Great Plains Energy Incorporated, a Missouri corporation, does hereby constitute and appoint Michael J. Chesser or Jaileah X. Huddleston, his true and lawful attorney and agent, with full power and authority to execute in the name and on behalf of the undersigned as such director a Registration Statement on Form S-8 and all amendments thereto, hereby granting unto such attorney and agent full power of substitution and revocation in the premises; and hereby ratifying and confirming all that such attorney and agent may do or cause to be done by virtue of these presents.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 7th day of February, 2012.

/s/ Thomas D. Hyde  
Thomas D. Hyde

STATE OF MISSOURI     )  
                                  )            ss  
COUNTY OF JACKSON )

On this 7th day of February, 2012, before me the undersigned, a Notary Public, personally appeared Thomas D. Hyde, to be known to be the person described in and who executed the foregoing instrument, and who, being by me first duly sworn, acknowledged that he/she executed the same as his/her free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal the day and year last above written.

/s/ Annette G. Carter  
Notary Public

My Commission Expires: October 6, 2013

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