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

FORM 11-K

ANNUAL REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the Plan year ended December 31, 2009

OR

TRANSITION REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from _____ to _____

Commission File Number 1-3523

A. Full title of the plan and the address of plan, if different from that of the issuer named below:

**WESTAR ENERGY, INC.
EMPLOYEES' 401(k) SAVINGS PLAN**

B. Name of issuer of the securities held pursuant to the plan and the address of its principal executive office:

WESTAR ENERGY, INC.
818 South Kansas Avenue
Topeka, Kansas 66612

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**Westar Energy, Inc.
Employees' 401(k) Savings Plan**

Financial Statements as of December 31, 2009 and 2008, and for the Year Ended December 31, 2009, Supplemental Schedule as of December 31, 2009, and Report of Independent Registered Public Accounting Firm

WESTAR ENERGY, INC. EMPLOYEES' 401(k) SAVINGS PLAN

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All other schedules required by section 2520.103-10 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974 have been omitted because they are not applicable.

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Participants and the Investment and Benefits Committee of
Westar Energy, Inc. Employees' 401(k) Savings Plan

We have audited the accompanying statements of net assets available for benefits of the Westar Energy, Inc. Employees' 401(k) Savings Plan (the "Plan") as of December 31, 2009 and 2008, and the related statement of changes in net assets available for benefits for the year ended December 31, 2009. These financial statements are the responsibility of the Plan's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. The Plan is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. Our audits included consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Plan's internal control over financial reporting. Accordingly, we express no such opinion. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, such financial statements present fairly, in all material respects, the net assets available for benefits of the Plan as of December 31, 2009 and 2008, and the changes in net assets available for benefits for the year ended December 31, 2009 in conformity with accounting principles generally accepted in the United States of America.

Our audits were conducted for the purpose of forming an opinion on the basic financial statements taken as a whole. The supplemental schedule listed in the table of contents is presented for the purpose of additional analysis and is not a required part of the basic financial statements, but is supplementary information required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974. This schedule is the responsibility of the Plan's management. Such schedule has been subjected to the auditing procedures applied in our audit of the basic 2009 financial statements and, in our opinion, is fairly stated in all material respects when considered in relation to the basic financial statements taken as a whole.

/s/ DELOITTE & TOUCHE LLP

Kansas City, Missouri
June 28, 2010

WESTAR ENERGY, INC.
EMPLOYEES' 401(k) SAVINGS PLAN
STATEMENTS OF NET ASSETS AVAILABLE FOR BENEFITS
DECEMBER 31, 2009 AND 2008

	<u>2009</u>	<u>2008</u>
ASSETS		
Participant-directed investments:		
Mutual funds	\$292,734,011	\$ 221,366,700
Vanguard Retirement Savings Trust Fund	54,485,684	50,849,296
Westar Energy Common Stock Fund	28,262,835	27,626,293
Loan Fund	9,774,764	9,259,004
Total Investments	<u>385,257,294</u>	<u>309,101,293</u>
Dividends receivable	397,824	395,711
Total Assets	<u>385,655,118</u>	<u>309,497,004</u>
NET ASSETS AVAILABLE FOR BENEFITS AT FAIR VALUE	385,655,118	309,497,004
Adjustment from fair value to contract value for fully benefit-responsive stable value fund (Note 2)	<u>(1,177,881)</u>	<u>664,766</u>
NET ASSETS AVAILABLE FOR BENEFITS	<u>\$384,477,237</u>	<u>\$ 310,161,770</u>

The accompanying notes are an integral part of these financial statements.

WESTAR ENERGY, INC.
EMPLOYEES' 401(k) SAVINGS PLAN
STATEMENT OF CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS
FOR THE YEAR ENDED DECEMBER 31, 2009

Investment income:	
Interest income	\$ 2,253,469
Dividend income	7,357,668
Net appreciation in fair value of investments	55,848,185
Total Investment Income	65,459,322
Contributions:	
Employer	6,629,253
Participant	16,817,046
Rollover	342,175
Total Contributions	23,788,474
Benefits paid to participants	14,799,300
Administrative expenses	133,029
Total Deductions	14,932,329
INCREASE IN NET ASSETS	74,315,467
NET ASSETS AVAILABLE FOR BENEFITS	
Beginning of Year	310,161,770
End of Year	\$ 384,477,237

The accompanying notes are an integral part of these financial statements.

WESTAR ENERGY, INC. EMPLOYEES' 401(k) SAVINGS PLAN
NOTES TO THE FINANCIAL STATEMENTS

1. NATURE OF OPERATIONS

The following description of the Westar Energy, Inc. (the "Company") Employees' 401(k) Savings Plan (the "Plan") is provided for general information purposes only. Participants should refer to the Plan document for more complete information.

General - The Plan is a defined contribution plan, designed to provide benefits for eligible employees of the Company upon retirement or earlier termination of employment. The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974 ("ERISA").

Eligibility - An employee becomes eligible to participate in the Plan as of the first day of the calendar month following commencement of active employment or re-employment and/or as specified within the Plan document. Participants are eligible for the Company matching contribution following the completion of one year of service, as defined by the Plan.

Contributions - Participants of the Plan may contribute between 1 to 50 percent of earnings as defined by the Plan. All employees who are eligible to make elective deferrals under the Plan and have attained age 50, are eligible to make catch-up contributions in accordance with the Plan document. In addition to or instead of pretax contributions, participants can elect to make Roth elective deferrals. In addition to or instead of pretax and/or Roth contributions, participants can elect to make after-tax contributions of between 1 percent and 4 percent of earnings, as defined by the Plan. However, effective March 1, 2009, after-tax contributions were discontinued, and no future after-tax contributions shall be permitted under the Plan on or after that date. Participants may also contribute amounts representing distributions from other qualified employee benefits plans. Participants direct the investment of their contributions and Company matching contributions into various investment options offered by the Plan. The Plan currently offers 20 mutual funds (including 11 target-date retirement funds), a common/collective trust fund and a Company stock fund as investment options for participants. Contributions up to the first 6 percent of a participant's earnings, as defined by the Plan, are matched 75 percent by the Company. The Company matching contribution may be made in either cash or in Company common stock, generally at the option of the Company. Participants are immediately vested in both their contributions and Company contributions and earnings thereon. Contributions are subject to certain limitations. Active participants are allowed to make additional contributions each quarter to meet the maximum contribution percentage. These contributions are considered in determining matching employer contributions. Company matching contributions are suspended for a period of six months in the event that a participant withdrew money from their after-tax account and/or the Company match account. Company matching contributions are also suspended in the event a participant received a hardship withdrawal. Effective January 2, 2008 the Plan does not allow additional contribution, transfer, or rollover of monies into the Company stock fund if the value of the participant's investment in the Company stock fund equals or exceeds 15% of the participant's account.

WESTAR ENERGY, INC. EMPLOYEES' 401(k) SAVINGS PLAN
NOTES TO THE FINANCIAL STATEMENTS—(Continued)

Payment of Benefits - Benefits are recorded when paid. Upon retirement, death, disability or termination of employment, all vested balances are paid to the participant or the participant's beneficiaries in accordance with Plan terms.

Participant Accounts - A separate account is maintained for each participant. Allocations to participant accounts for employer and employee contributions are made when the contributions are received by the trustee. Allocations to participant accounts for the net of interest, dividends, realized and unrealized changes in investment gains and losses and Plan expenses are made when such amounts are earned or incurred.

Participant Loans - Participants are permitted to borrow a specified portion of the balance in their individual account. Loan interest rates and terms are established by the Investment and Benefits Committee. Loans are evidenced by promissory notes payable to the Plan over one to five years for general purpose loans and up to 30 years for principal residence loans.

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Accounting - The accompanying financial statements have been prepared in accordance with accounting principles generally accepted in the United States of America ("GAAP").

Use of Estimates - The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires the Company's management to make estimates and assumptions that affect the reported amounts of net assets available for benefits and changes therein. Actual results could differ from those estimates.

Risks and Uncertainties - The Plan utilizes various investment instruments including common stock, mutual funds, and a common/collective trust fund. Investment securities, in general, are exposed to various risks, such as interest rate risk, credit risk, and overall market volatility. Due to the level of risk associated with certain investment securities, it is reasonably possible that changes in the values of investment securities will occur in the near term and that such change could materially affect the amounts reported in the financial statements. There is a concentration of investments in Company common stock and there is a possibility that changes in the value of Company common stock could occur and affect the amounts reported in the statements of net assets available for benefits.

Investment Valuation and Income Recognition - The Plan's investments are stated at fair value. Fair value of a financial instrument is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. Shares of mutual funds are valued at quoted market prices, which represent the net asset value of shares held by the Plan at year end. The Company's common stock fund is invested primarily in the common stock of the Company. A small portion of the fund may also be invested in short-term reserves such as money market investments to help accommodate daily transactions. The investment objective of this fund is to provide the possibility of long-term growth through increases in the value of the stock and the reinvestment of its dividends. The Company's common stock fund is stated at fair value at its year-end unit closing price (comprised of year end market price plus uninvested cash). The investment in the common/collective trust fund (which is considered to be a stable value fund) has underlying investments in investment contracts and is valued at the fair market value of the underlying investments and then adjusted by the issuer to contract value. Fair value of the stable value fund is the net asset value of its underlying investments and contract value is the principal plus accrued interest. Participant loans are valued at the outstanding loan balances, which approximate fair value. Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date.

WESTAR ENERGY, INC. EMPLOYEES' 401(k) SAVINGS PLAN
NOTES TO THE FINANCIAL STATEMENTS—(Continued)

The Vanguard Retirement Savings Trust Fund (the "Trust") is a common/collective trust fund that is considered to be a stable value fund and provides for the collective investment of assets of tax-exempt pension and profit sharing plans. The Trust invests solely in the Vanguard Retirement Savings Trust ("VRST") Master Trust. The VRST Master Trust seeks to provide participants with an attractive rate of interest and safety of principal. The expectation is that each unit of the VRST Master Trust will maintain a constant net asset value of \$1. However, there is no assurance that this will be the case. The underlying investments of VRST Master Trust are primarily in a pool of investment contracts that are issued by insurance companies and commercial banks and in contracts that are backed by high-quality bonds, bond trusts, and bond mutual funds. Participants may ordinarily direct the withdrawal or transfer of all or a portion of their investment at contract value. Contract value represents contributions made to the fund, plus earnings, less participant withdrawals. The existence of certain conditions can limit the Trust's ability to transact at contract value with issuers of its investment contracts. Specifically, any event outside the normal operation of the Trust that causes a withdrawal from an investment contract may result in a negative market value adjustment with respect to the withdrawal. Examples of such events include, but are not limited to, partial or complete legal termination of the Trust or a unit holder, tax disqualification of the Trust or unit holder, and certain Trust amendments if issuers' consent is not obtained. In general, issuers may terminate the contract and settle at other than contract value if there is a change in the qualification status of the participant, employer, or Plan; a breach of material obligations under the contract and misrepresentation by the contract holder; or failure of the underlying portfolio to conform to the pre-established investment guidelines. Plan management believes that the occurrence of events that would cause the trust to transact at less than contract value is not probable.

In accordance with GAAP the statements of net assets available for benefits presents the stable value fund with underlying investments in investment contracts at fair value, as well as an additional line item showing an adjustment of fully benefit-responsive stable value fund from fair value to contract value. The statement of changes in net assets available for benefits is presented on a contract value basis.

Management fees and operating expenses charged to the Plan for investments are deducted from income earned on a daily basis and are not separately reflected. Consequently, management fees and operating expenses are reflected as a reduction of investment return for such investments.

Unit Values - Individual participant accounts invested in the Company common stock fund and the common/collective trust fund are maintained on a unit value basis. Participants do not have beneficial ownership in specific underlying securities or other assets in the various funds, but have an interest therein represented by units valued as of the last business day of the period. The various funds earn dividends and interest, which are automatically reinvested in additional units. Generally, contributions to and withdrawal payments from each fund are converted to units by dividing the amounts of such transactions by the unit values as last determined, and the participants' accounts are charged or credited with the number of units properly attributable to each participant.

Company Common Stock Fund - Effective January 1, 2003, the portion of the Plan consisting of the Company stock fund is designated as a stock bonus plan within the meaning of Section 401(a) of the Internal Revenue Code ("IRC") and an employee stock ownership plan within the meaning of Section 4975(e)(7) of the IRC. Such portion of the Plan is referred to as the "ESOP". The ESOP was not implemented until September 18, 2003. The ESOP is designed to invest primarily in common stock of the Company or other qualifying employer securities as defined in Section 4975(e)(8) of the IRC. With

WESTAR ENERGY, INC. EMPLOYEES' 401(k) SAVINGS PLAN
NOTES TO THE FINANCIAL STATEMENTS—(Continued)

respect to dividends paid on Company common stock allocated on the record date of the applicable dividend to a participant's account under the ESOP, the participant shall have the right to elect that either the dividend be paid directly in cash or be paid to the participant's account under the ESOP and invested in Company common stock in the Company stock fund. Dividends paid from the ESOP to participants were \$176,636 in 2009 and \$152,252 in 2008.

Administrative Expenses - All administrative expenses of the Plan are paid by the Company with the exception of loan administrative charges and investment advisory fees, which are paid by the participants and are reflected as administrative expenses in the accompanying statement of changes in net assets available for benefits. The Company has no continuing obligation to pay these expenses.

New Accounting Standards Adopted - The accounting standards initially adopted in the 2009 financial statements described below affected certain note disclosures but did not impact the statements of net assets available for benefits or the statement of changes of net assets available for benefits.

Accounting Standards Codification - In June 2009, the Financial Accounting Standards Board ("FASB") approved its Accounting Standards of Codification ("ASC") as the exclusive authoritative reference for U.S. GAAP to be applied by nongovernmental entities. Securities and Exchange Commission ("SEC") rules and interpretive releases are still considered authoritative GAAP for SEC registrants. The ASC, which changes the referencing of accounting standards, is effective for interim and annual reporting periods ending after September 15, 2009. The Plan adopted the ASC effective July 1, 2009 without a material impact on the financial statements.

Updates to Fair Value Measurements and Disclosures - In April 2009, FASB issued guidance for determining fair value when the volume and level of activity for an asset or liability have significantly decreased and for identifying transactions that are not orderly. The Plan adopted this guidance without a material impact on the financial statements.

In September 2009, FASB issued guidance permitting entities to measure the fair value of certain investments on the basis of the net asset value per share of the investments and requiring additional disclosure about such fair value investments. This guidance is effective for the first reporting period ending after December 15, 2009. The plan adopted this guidance as it relates to the stable value fund and the Company common stock fund (See Note 2) without a material impact on the financial statements.

New Accounting Standards to Be Adopted - In January 2010, FASB issued guidance improving fair value disclosure. This guidance becomes effective at two separate time periods. Requirements to disclose and explain transfers in and out of levels 1 and 2 are effective for interim and annual periods beginning after December 15, 2009. In the reconciliation of level 3 fair value measurements, entities are required to separately disclose purchases, sales, issuances, and settlements. This guidance is effective for annual periods beginning after December 15, 2010. The Plan does not expect the adoption of this guidance to have a material impact on its financial statements.

WESTAR ENERGY, INC. EMPLOYEES' 401(k) SAVINGS PLAN
NOTES TO THE FINANCIAL STATEMENTS—(Continued)

3. INVESTMENTS

The Plan's investments that represented 5 percent or more of the Plan's net assets available for benefits as of December 31, 2009 and 2008 are as follows:

	2009	2008
Vanguard Retirement Savings Trust Fund	\$54,485,684	\$50,849,296
Vanguard 500 Index Signal Fund	52,565,600	38,603,334
Vanguard PRIMECAP Fund	49,563,452	37,813,662
Vanguard Windsor Fund	49,024,236	37,236,539
Vanguard Total Bond Market Index Signal Fund	31,585,965	26,510,252
Vanguard Wellington Fund	31,356,477	25,283,936
Westar Energy Common Stock Fund	28,262,835	27,626,293
Vanguard Total International Stock Index Fund	28,209,762	17,483,587
Vanguard Prime Money Market Fund	—	16,315,411

During the year ended December 31, 2009, the Plan's investments (including gains and losses on investments bought and sold, as well as held during the year) appreciated in value by \$55,848,185 as follows:

Mutual funds	\$54,220,423
Westar Energy Common Stock Fund	1,627,762
Net appreciation in fair value of investments	<u>\$55,848,185</u>

4. FAIR VALUE MEASUREMENTS

ASC 820, *Fair Value Measurements and Disclosures*, established a single authoritative definition of fair value, set a framework for measuring fair value, and requires additional disclosures about fair value measurements. In accordance with ASC 820, the Plan classifies its investments into Level 1, which refers to securities valued using quoted prices from active markets for identical assets; Level 2, which refers to securities not traded on an active market but for which observable market inputs are readily available; and Level 3, which refers to securities valued based on significant unobservable inputs. Assets are classified in their entirety based on the lowest level of input that is significant to the fair value measurement.

WESTAR ENERGY, INC. EMPLOYEES' 401(k) SAVINGS PLAN
NOTES TO THE FINANCIAL STATEMENTS—(Continued)

In accordance with the update to ASC 820, the table below includes the major categorization for debt and equity securities on the basis of the nature and risk of the investments at December 31, 2009.

	<u>Level 1</u>	<u>Level 2</u>	<u>Level 3</u>	<u>Total</u>
Mutual funds:				
Domestic stock funds	\$ 177,437,473	\$ —	\$ —	\$ 177,437,473
Balanced funds	41,075,913	—	—	41,075,913
International Stock fund	28,209,762	—	—	28,209,762
Fixed income fund	46,010,863	—	—	46,010,863
Total mutual funds	<u>292,734,011</u>	<u>—</u>	<u>—</u>	<u>292,734,011</u>
Westar Energy Common Stock Fund	—	28,262,835	—	28,262,835
Participant loans	—	9,774,764	—	9,774,764
Common/collective trust	—	54,485,684	—	54,485,684
Total	<u>\$ 292,734,011</u>	<u>\$ 92,523,283</u>	<u>\$ —</u>	<u>\$ 385,257,294</u>

The following table sets forth by level within the fair value hierarchy a summary of the Plan's investments measured at fair value on a recurring basis at December 31, 2008.

	<u>Level 1</u>	<u>Level 2</u>	<u>Level 3</u>	<u>Total</u>
Westar Energy Common Stock Fund	\$ —	\$ 27,626,293	\$ —	\$ 27,626,293
Mutual funds	221,366,700	—	—	221,366,700
Participant loans	—	9,259,004	—	9,259,004
Common/collective trust	—	50,849,296	—	50,849,296
Total	<u>\$ 221,366,700</u>	<u>\$ 87,734,593</u>	<u>\$ —</u>	<u>\$ 309,101,293</u>

5. FEDERAL INCOME TAX STATUS

The Plan obtained its latest determination letter on July 9, 2004, in which the Internal Revenue Service stated the Plan, as then designed, was in compliance with the applicable requirements of the IRC. The plan has been amended since receiving the determination letter. The plan administrator believes the Plan is currently designed and being operated in compliance with the applicable requirements of the IRC. Therefore, no provision for income taxes is included in these financial statements.

6. PLAN TERMINATION

Although it has not expressed any intent to do so, the Company has the right under the Plan to discontinue its contributions at any time and to terminate the Plan subject to the provisions of ERISA.

WESTAR ENERGY, INC. EMPLOYEES' 401(k) SAVINGS PLAN
NOTES TO THE FINANCIAL STATEMENTS—(Continued)

7. EXEMPT PARTY-IN-INTEREST TRANSACTIONS

The Plan invests in shares of mutual funds and a common/collective trust fund managed by Vanguard. Vanguard Fiduciary Trust Company is the trustee of the Plan and, therefore, these transactions qualify as exempt party-in-interest transactions. Also, the Company common stock fund includes transactions that also qualify as party-in-interest transactions.

8. RECONCILIATION OF FINANCIAL STATEMENTS TO FORM 5500

The following is a reconciliation of net assets available for benefits per the financial statements to amounts reflected in the Form 5500 as of December 31, 2009 and 2008.

	<u>2009</u>	<u>2008</u>
Net assets available for benefits per the financial statements	\$384,477,237	\$310,161,770
Adjustment from contract value to fair value for fully benefit-responsive stable value fund	1,177,881	(664,766)
Less deemed distributions	<u>(7,197)</u>	<u>—</u>
Net assets per the Form 5500	<u>\$385,647,921</u>	<u>\$309,497,004</u>

The following is a reconciliation of the increase in net assets per the financial statements to amounts reflected in the Form 5500 for the year ended December 31, 2009.

	<u>2009</u>
Increase in net assets per the financial statements	\$74,315,467
Change in fair market value for fully benefit-responsive stable value fund	1,842,647
Less deemed distributions	<u>(7,197)</u>
Increase in net assets per the Form 5500	<u>\$76,150,917</u>

The following is a reconciliation of distributions to participants per the financial statements to the Form 5500 for the year ended December 31, 2009.

	<u>2009</u>
Total distributions to participants per the financial statements	\$14,799,300
Add deemed distributions	<u>7,197</u>
Total distributions to participants per the Form 5500	<u>\$14,806,497</u>

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WESTAR ENERGY, INC. EMPLOYEES' 401(k) SAVINGS PLAN
FORM 5500, SCHEDULE H, PART IV, LINE 4(i) - SCHEDULE OF ASSETS (HELD AT END OF YEAR)
DECEMBER 31, 2009

Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment	Shares/Units	Cost	Current Value
* Vanguard 500 Index Signal Fund	Mutual Fund	619,804	**	\$ 52,565,600
* Vanguard PRIMECAP Fund	Mutual Fund	833,980	**	49,563,452
* Vanguard Windsor Fund	Mutual Fund	4,116,225	**	49,024,236
* Vanguard Total Bond Market Index Signal Fund	Mutual Fund	3,051,784	**	31,585,965
* Vanguard Wellington Fund	Mutual Fund	1,086,880	**	31,356,477
* Vanguard Total International Stock Index Fund	Mutual Fund	1,957,652	**	28,209,762
* Vanguard Prime Money Market Fund	Mutual Fund	14,424,898	**	14,424,898
* Vanguard Mid-Cap Index Signal Fund	Mutual Fund	711,918	**	16,680,242
* Vanguard Small-Cap Index Fund	Mutual Fund	349,361	**	9,603,943
* Vanguard Target Retirement 2015 Fund	Mutual Fund	269,213	**	3,044,795
* Vanguard Target Retirement 2010 Fund	Mutual Fund	79,912	**	1,639,801
* Vanguard Target Retirement 2025 Fund	Mutual Fund	122,459	**	1,386,232
* Vanguard Target Retirement 2020 Fund	Mutual Fund	99,868	**	1,993,364
* Vanguard Target Retirement 2035 Fund	Mutual Fund	37,673	**	437,764
* Vanguard Target Retirement 2005 Fund	Mutual Fund	26,725	**	293,444
* Vanguard Target Retirement 2030 Fund	Mutual Fund	15,519	**	299,679
* Vanguard Target Retirement 2040 Fund	Mutual Fund	13,420	**	255,660
* Vanguard Target Retirement 2045 Fund	Mutual Fund	10,644	**	127,937
* Vanguard Target Retirement 2050 Fund	Mutual Fund	6,526	**	124,708
* Vanguard Target Retirement Income Fund	Mutual Fund	10,959	**	116,052
Total Mutual Funds				292,734,011
* Vanguard Retirement Savings Trust Fund	Common/Collective Trust Fund	54,485,684	**	54,485,684
* Westar Energy Common Stock Fund	Company Stock Fund	2,417,693	**	28,262,835
* Loan Fund	Various participants, interest rates ranging from 4.25% to 14%, maturities through November 17, 2039.		**	9,774,764
Total Investments				\$385,257,294

* Represents a party-in-interest to the Plan.

** Cost information is not required for participant-directed investments and, therefore, is not included.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the Investment and Benefits Committee for the Westar Energy, Inc. Employees' 401(k) Savings Plan has duly caused this annual report to be signed on its behalf by the undersigned hereunto duly authorized.

WESTAR ENERGY, INC.

By:

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>/s/ TONY SOMMA</u> Tony Somma	Chairman	<u>June 28, 2010</u>
<u>/s/ GREG A. GREENWOOD</u> Greg A. Greenwood	Member	<u>June 28, 2010</u>
<u>/s/ MARK RUELLE</u> Mark Ruelle	Member	<u>June 28, 2010</u>
<u>/s/ BRUCE A. AKIN</u> Bruce A. Akin	Member	<u>June 28, 2010</u>
<u>/s/ KELLY B. HARRISON</u> Kelly B. Harrison	Member	<u>June 28, 2010</u>
<u>/s/ JERL L. BANNING</u> Jerl L. Banning	Member	<u>June 28, 2010</u>

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in Registration Statement No. 333-151104 on Form S-8 of our report dated June 28, 2010, appearing in this Annual Report on Form 11-K of Westar Energy, Inc. Employees' 401(k) Savings Plan for the year ended December 31, 2009.

/s/ DELOITTE & TOUCHE LLP

Kansas City, MO
June 28, 2010