

**CAPITAL ASSET PRICING MODEL (CAPM) COST OF COMMON EQUITY ESTIMATES  
FOR SPIRE INC. AND LDC PEER GROUP BASED ON 20-YEAR US TREASURY**

	(1)	(2)	(3)		(4)	
Company Name	20-Year Risk Free Rate	Beta	Market Risk Premiums		CAPM Cost of Common Equity Range	
Atmos Energy Corporation	4.76%	0.70	5.00%	6.00%	8.28%	8.99%
New Jersey Resources Corporation	4.76%	0.75	5.00%	6.00%	8.52%	9.27%
NiSource Inc.	4.76%	0.72	5.00%	6.00%	8.38%	9.11%
Northwest Natural Holding Company	4.76%	0.66	5.00%	6.00%	8.05%	8.71%
ONE Gas, Inc.	4.76%	0.67	5.00%	6.00%	8.13%	8.80%
Southwest Gas Holdings, Inc.	4.76%	0.74	5.00%	6.00%	8.48%	9.22%
Spire Inc.	4.76%	0.71	5.00%	6.00%	8.31%	9.02%
<b>LDC Average</b>		<u>0.71</u>			<u>8.31%</u>	<u>9.02%</u>

Column 1 = Average of last 3 Months of 20-Year Treasuries obtained from the St. Louis Federal Reserve website at <https://fred.stlouisfed.org/series/GS20>

Column 2 = Beta is a measure of the movement and relative risk of an individual stock to the market as a whole. I used a template provided by S&P Market Intelligence that calculates raw betas based on the Value Line approach.

I then adjusted the raw beta using the following Blume formula:

Adjusted Beta =  $0.35 + 0.67 * \text{Unadjusted Beta}$

Column 3 = The market risk premium is similar to historical spreads and estimates provided by sources, such as Kroll.

Column 4 =  $(\text{Column 1} + (\text{Column 2} * \text{Column 3}))$ .

**CAPITAL ASSET PRICING MODEL (CAPM) COST OF COMMON EQUITY ESTIMATES  
FOR SPIRE INC. AND LDC PEER GROUP BASED ON 30-YEAR US TREASURY**

	(1)	(2)	(3)		(4)	
Company Name	30-Year Risk Free Rate	Beta	Market Risk Premiums		CAPM Cost of Common Equity Range	
Atmos Energy Corporation	4.71%	0.70	5.00%	6.00%	8.23%	8.94%
New Jersey Resources Corporation	4.71%	0.75	5.00%	6.00%	8.47%	9.22%
NiSource Inc.	4.71%	0.72	5.00%	6.00%	8.33%	9.06%
Northwest Natural Holding Company	4.71%	0.66	5.00%	6.00%	8.00%	8.66%
ONE Gas, Inc.	4.71%	0.67	5.00%	6.00%	8.08%	8.75%
Southwest Gas Holdings, Inc.	4.71%	0.74	5.00%	6.00%	8.43%	9.17%
Spire Inc.	4.71%	0.71	5.00%	6.00%	8.26%	8.97%
<b>LDC Average</b>		<b>0.71</b>			<b>8.26%</b>	<b>8.97%</b>

Column 1 = Average of last 3 Months of 30-Year Treasuries obtained from the St. Louis Federal Reserve website at <https://fred.stlouisfed.org/series/GS20>

Column 2 = Beta is a measure of the movement and relative risk of an individual stock to the market as a whole. I used a template provided by S&P Market Intelligence that calculates raw betas based on the Value Line approach. I then adjusted the raw beta using the following Blume formula:  
Adjusted Beta = 0.35 + 0.67 \* Unadjusted Beta

Column 3 = The market risk premium is similar to historical spreads and estimates provided by sources, such as Kroll.

Column 4 = (Column 1 + (Column 2 \* Column 3)).

**CAPITAL ASSET PRICING MODEL (CAPM) COST OF COMMON EQUITY ESTIMATES FOR SPIRE INC.  
AND LDC PEER GROUP BASED ON KROLL RECOMMENDED RISK-FREE RATE AND RISK PREMIUM**

	(1)	(2)	(3)	(4)
	Kroll Recommended Risk-free Rate	Beta	Kroll Market Risk Premium	CAPM Cost of Common Equity
Company Name				
Atmos Energy Corporation	4.63%	0.70	5.00%	8.15%
New Jersey Resources Corporation	4.63%	0.75	5.00%	8.39%
NiSource Inc.	4.63%	0.72	5.00%	8.25%
Northwest Natural Holding Company	4.63%	0.66	5.00%	7.92%
ONE Gas, Inc.	4.63%	0.67	5.00%	8.00%
Southwest Gas Holdings, Inc.	4.63%	0.74	5.00%	8.35%
Spire Inc.	4.63%	0.71	5.00%	8.18%
<b>LDC Average</b>		<u>0.71</u>		<u>8.18%</u>

Column 1 = Kroll Most Recent Guidance on Normalized Risk-free Rate as of June 16, 2022  
[Recommended U.S. Equity Risk Premium and Corresponding Risk-Free Rates \(kroll.com\)](https://www.kroll.com/insights/2022/06/16/kroll-recommends-u-s-equity-risk-premium-and-corresponding-risk-free-rates)

Column 2 = Beta is a measure of the movement and relative risk of an individual stock to the market as a whole. I used a template provided by S&P Market Intelligence that calculates raw betas based on the Value Line approach. I then adjusted the raw beta using the following Blume formula:  
Adjusted Beta = 0.35 + 0.67 \* Unadjusted Beta

Column 3 = Kroll's guidance as of June 6, 2024 on equity risk premium to be used in conjunction with normalized risk-free rate.  
[Kroll Lowers its Recommended U.S. Equity Risk Premium to 5.0%, Effective June 5, 2024](https://www.kroll.com/insights/2024/06/06/kroll-lowers-its-recommended-u-s-equity-risk-premium-to-5-0-effective-june-5-2024)

Column 4 = (Column 1 + (Column 2 \* Column 3)).