

PARK MGM > LAS VEGAS, NV > OCTOBER 17-20, 2023





# **Utility Sector – Introduction & Trends**

- Tony Ross, Chief Credit Officer Woodforest National Bank
- Brad Saegesser, Managing Director RapidRatings

# **WOODFOREST OVERVIEW**



### Established in 1980

Headquartered in The Woodlands, TX With Over \$9 Billion in Total Assets



### **Privately Owned Bank**

Employee Stock Ownership Plan is the Largest Shareholder



### Commercial Banking

Loan Production Offices Located in Texas, North Carolina, and Florida



### **Convenient Branches**

Over 760 Locations in 17 States With Most Located Inside the Nation's Largest Retailer



### **Employees**

Approximately 4,500 Employees Serving Our Customers



### **Full Service Banking**

Offering Strategic Solutions to Meet the Needs of Your Business



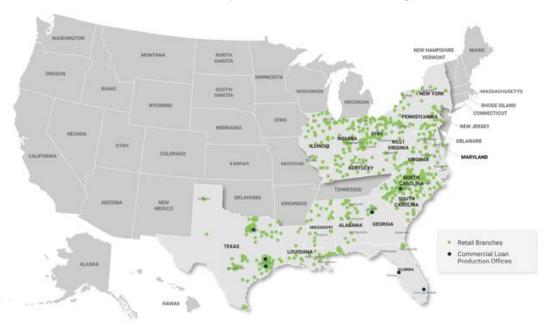
commercial.woodforest.com

# **BRANCH LOCATIONS**

UNITED STATES

### OVER 760 RETAIL BRANCHES AND 6 COMMERCIAL LOAN PRODUCTION OFFICES TO SERVE YOU'

Additional information about branch locations and hours of operation are available online or through the Woodforest Mobile Banking App<sup>2</sup>.







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We provide the most sophisticated analysis on the financial health of public and private companies in the world.

Our analytics software predicts financial outcomes for your most important suppliers. We are transforming the way the world's leading companies manage financial risk.

We See What Others Don't.®

















90%
ACCURACY
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With unmatched predictive power, our models provide early warnings years before a company declares bankruptcy.

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Years of company financials analyzed to fuel our algorithms

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# Agenda

- 1. Introduction to the Utility Sector
- 2. Financial Health Trends in the Utility Sector

# Introduction to the Utility Sector

# **Utility Sector – At a Glance**

Revenue

\$1.1tr

'18-'23 † 0.7 % '23-'28 † 0.1 % **Employees** 

963k

'18-'23 † 1.2 % '23-'28 † 0.4 % Businesses

50,813

'18-'23 † 1.1 % '23-'28 † 0.7 %

Profit

\$348.3bn

Profit Margin

32.8%

'18-'23 † 6.7 pp

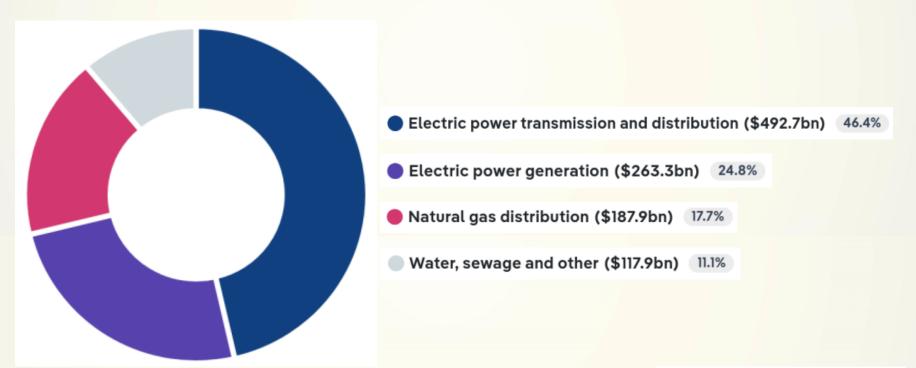
Wages

\$112.2bn

'18-'23 † 1.4 % '23-'28 † 0.3 %

# **Utilities – Product & Services**

Industry revenue in 2023 broken down by key product and service lines



# **Utility Sector – Key Takeaways**

### **Performance**

- Electric power transmission represent is the single-largest service within the Utilities sector. It accounts for 46.4% of sector revenue in 2023.
- Natural gas overtook coal as the leading source of electric power in 2016. Natural gas is responsible for generating 44.6% of all electric power in the United States (latest data available).
- Renewables are rapidly growing as a share of electric power. The Inflation Reduction Act allocates more than \$350.0 billion to develop clean energy in the United States.

### **External Environment**

- Utilities is one of the most heavily regulated sectors of the US economy. Businesses must comply with a myriad of regulations that make it extremely costly to do business.
- Power generation and transmission accounts for 71.2% of total sector revenue in 2023. Changes
  in electric power consumption and the price of electric power can considerably affect the sector

# **Key External Drivers**

Key External Drivers	Impact
Electric power consumption	Positive
Price of electric power	Positive
Price of natural gas	Positive
Housing starts	Positive
Industrial production index	Positive
Regulation for the Utilities Sector	Negative

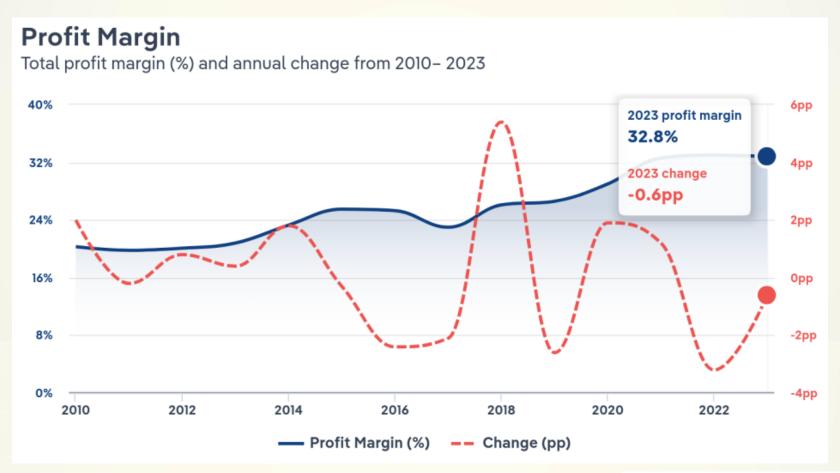
# **Industry Structure**

Characteristic	Level	Trend
Concentration	Low	
Barriers To Entry	High	Steady
Regulation and Policy	High	Steady
Life Cycle	Mature	
Revenue Volatility	Moderate	
Capital Intensity	High	
Assistance	Moderate	Steady
Competition	Low	Steady
Innovation	Moderate	

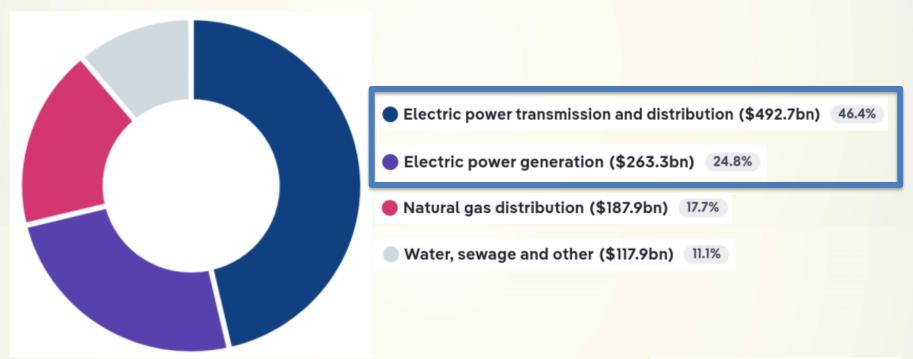
### Revenue

Total value (\$) and annual change from 2010 – 2028. Includes 5-year outlook.

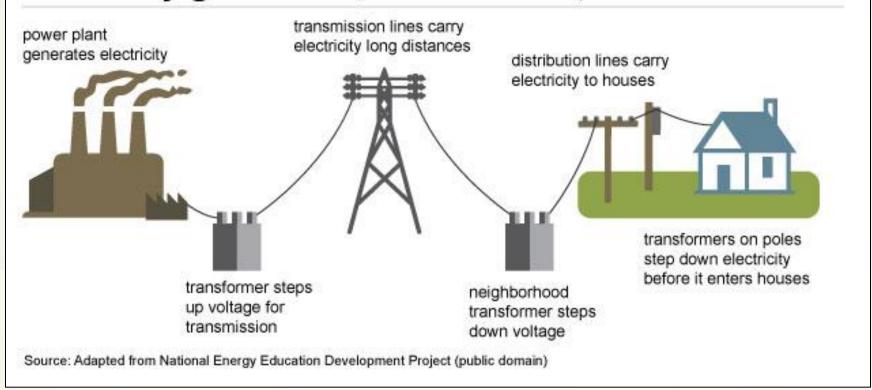




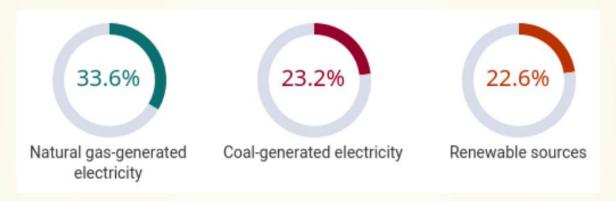
# **Electric Generation & Distribution**

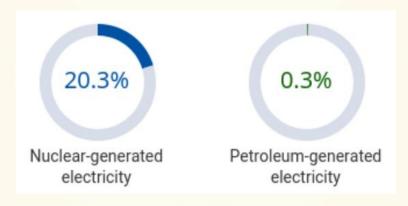


# Electricity generation, transmission, and distribution

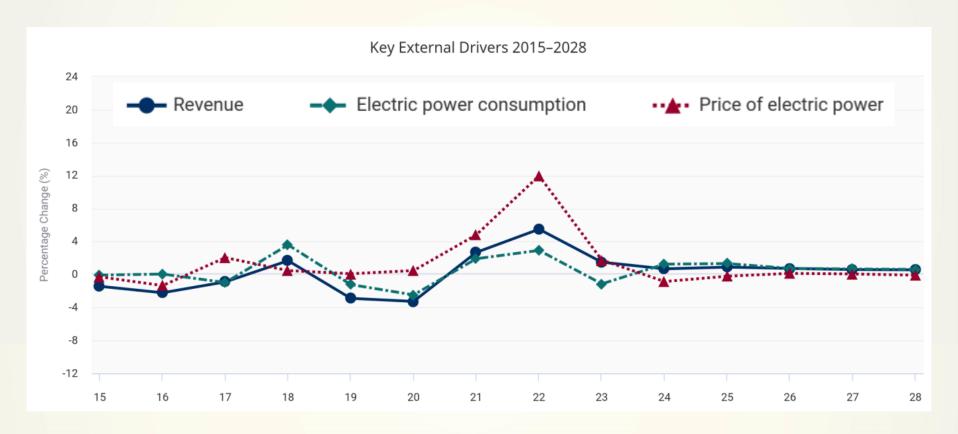


# **Electricity – Products & Services**



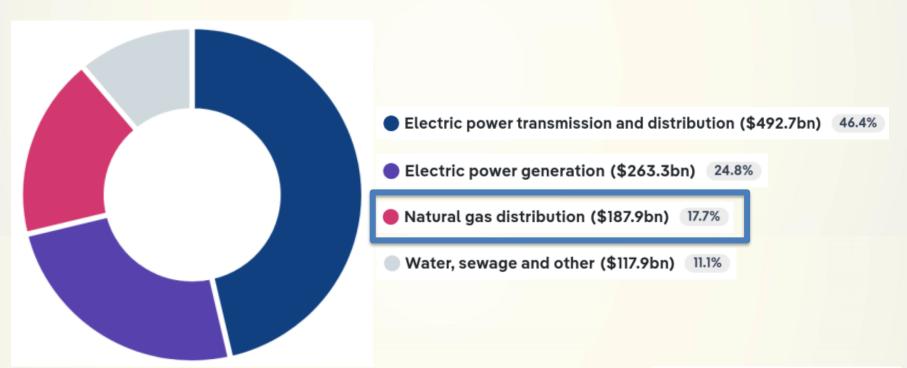


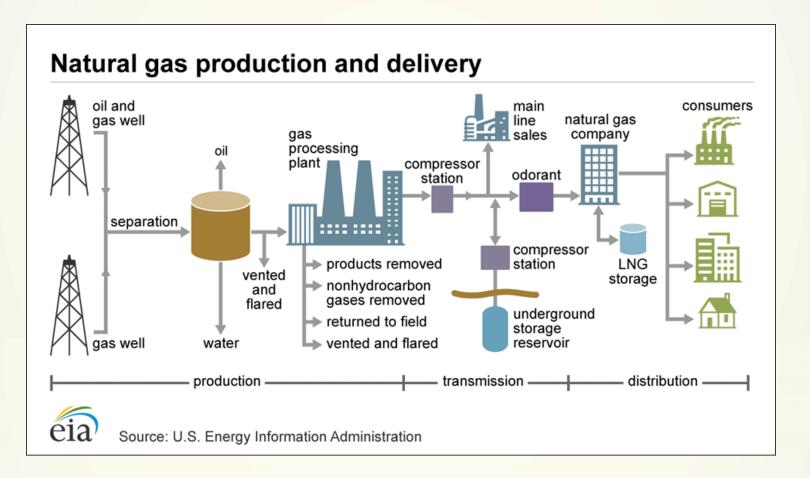
Electric Power Transmission Source: IBISWorld January 2023



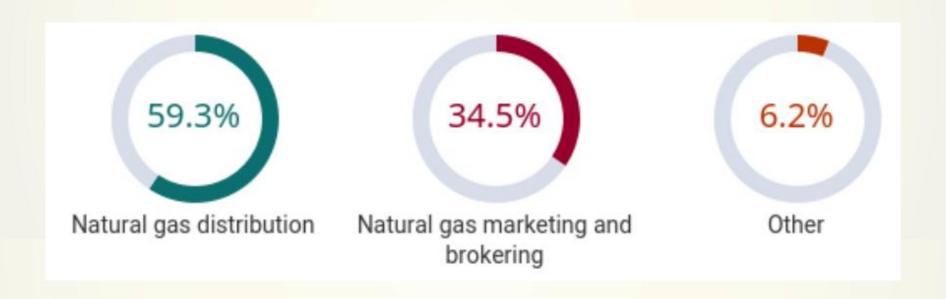
Electric Power Transmission Source: IBISWorld January 2023

# **Natural Gas Distribution**

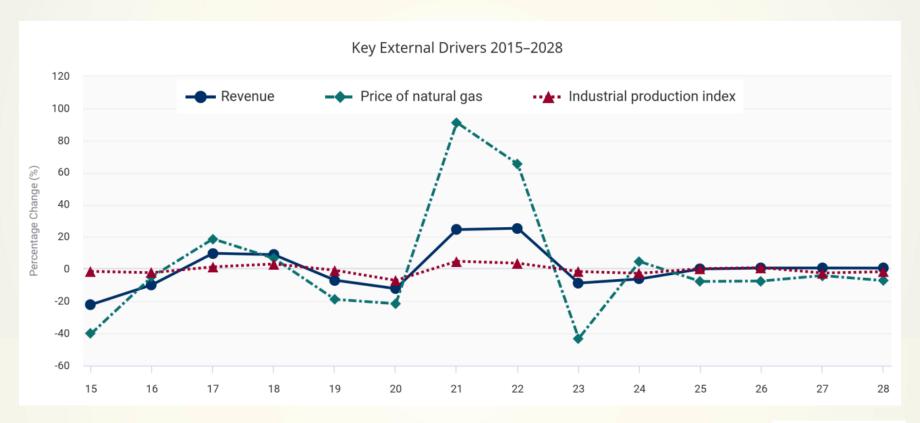




# Natural Gas – Products & Services

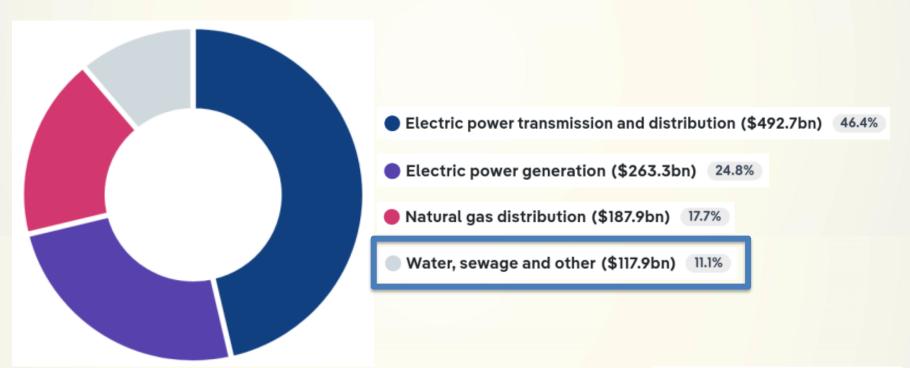


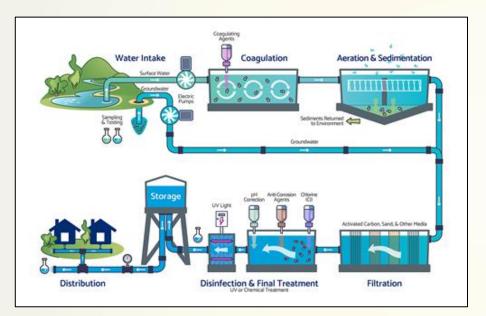
Natural Gas Distribution Source: IBISWorld January 2023

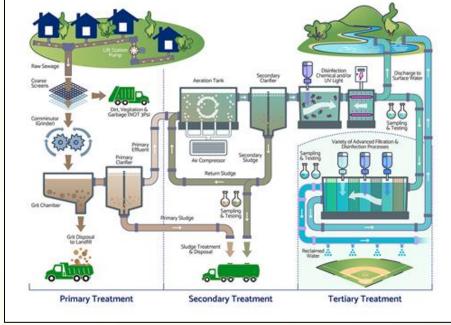


Natural Gas Distribution Source: IBISWorld January 2023

# Water, Sewer, and Other







# **Early Warning Scores (US)**

NAICS Code	NAICS Description	Risk Category	Structure Score (2024)	Growth Score (2024)	Sensitivity Score (2024)	Total Risk Score (2024)	Total Risk Score (2023)	Direction Of Risk	Risk Volatility
221111	Hydroelectric Power	Medium	3.99	5.65	4.95	4.89	4.75	Steady	10.5%
221112	Coal & Natural Gas Power	Medium	4.12	6.48	5.46	5.38	4.72	Increasing	44.1%
221113	Nuclear Power	Medium	3.86	5.82	5.50	5.17	4.18	Increasing	43.9%
221114	Solar Power	Very Low	3.32	1.00	4.84	3.50	2.93	Increasing	15.8%
221115	Wind Power	Very Low	3.32	1.00	4.46	3.31	2.96	Steady	5.5%
221121	Electric Power Transmission	Medium	3.06	5.39	5.94	5.08	4.39	Increasing	16.5%
221210	Natural Gas Distribution	High	4.65	7.51	5.57	5.83	5.27	Increasing	82.8%

1 = Lowest Risk; 9 = Highest Risk

Structure – Barriers to entry, competition, industry exports, industry imports, level of assistance, life cycle stage, and industry volatility. Growth – Historical growth and forecasted growth.

Sensitivity - Advertising expenditure, corporate profit, consumer spending, and investor uncertainty.



# Financial Health Trends in the US Utility Sector

(based on public companies)

# Four Fundamentals of Risk

- 1. What (and When) is the risk?
- 2. How has the risk been changing over time?
- 3. Why is the risk what it is?
- 4. How does the risk compare to industry peers?

# RapidRatings FHR Methodology

# Core Health

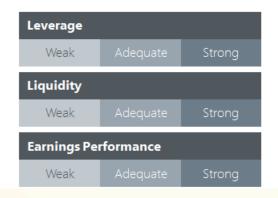
A measure of underlying efficiency using 62 ratios

The Core Health Score (CHS) measures the medium-term viability of the company.



# Resilience Indicators

Dynamically overlay 11 resilience ratios focused on short-term default risk



## = FHR

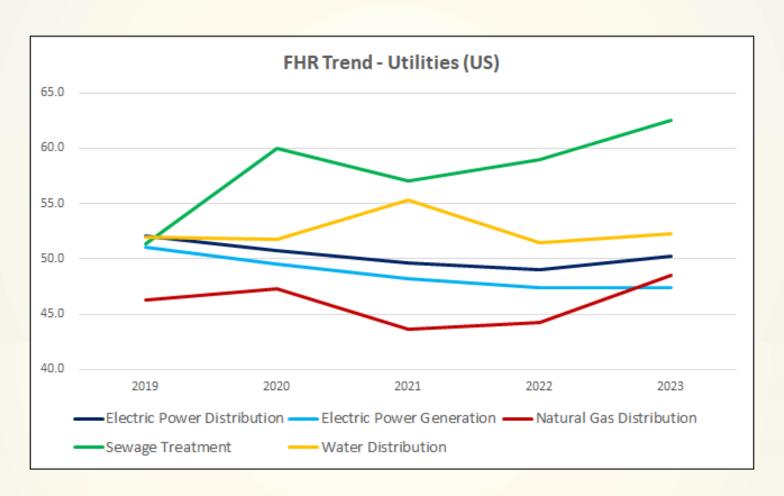
This produces the FHR, Risk Level, and PD%

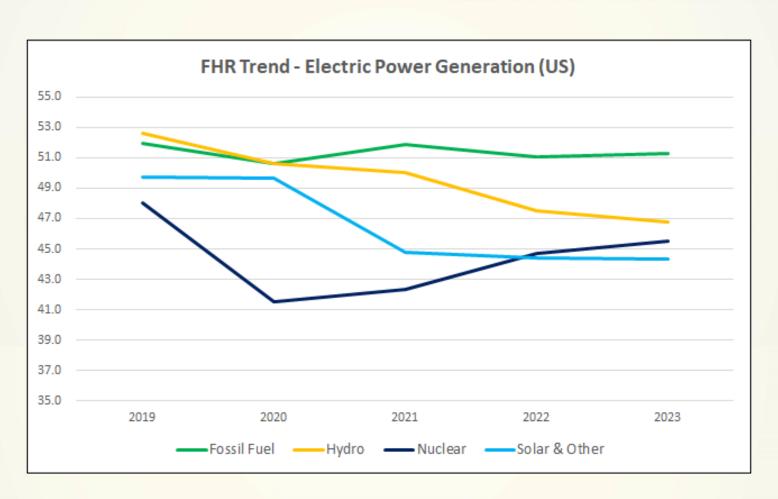
The Financial Health Rating (FHR) measures the near-term default risk



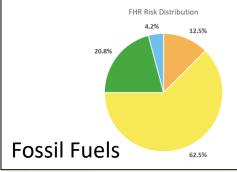
# RapidRatings Quadrant Analysis

		Shor	t Term Defau	ult Risk - Financial Health Rating							
		Very High Risk (0-19)	High Risk (20-39)	Medium Risk (40-59)	Low Risk (60-79)	Very Low Risk (80-100)					
Score	Very Strong Health (80-100)	Quadr									
ability - Core Health Score	Strong Health (60-79)	These companies better Core He challenges rema term given th probability of de	alth, however in in the short- eir elevated	Quadrant A  Companies in this quadrant demonstrate levels of operational efficiency likely to be sustainable over the medium-term, combined with an acceptable to very low default risk within the next 12 months.							
	Medium Health (40-59)	next 12 r	nonths.								
Medium Term Viability -	Poor Health (20-39)	Quadr These companie poor to very po (suggesting the ne	es demonstrate or Core Health			in the short-term,					
Mediu	Very Poor Health (0-19)	improvements) c high to very high over the n	ombined with a risk of default	the level of Core Health suggests a need for efficiency improvements, and current performan may not be sustainable over the medium-term.							

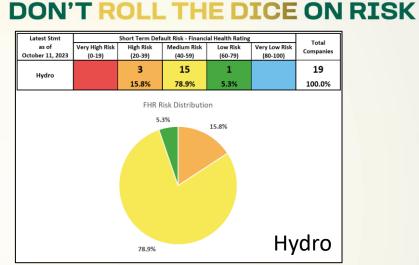




### Latest Stmt Short Term Default Risk - Financial Health Rating Total as of Very High Risk High Risk Medium Risk Low Risk Very Low Risk Companies October 11, 2023 (0-19)(20-39)(40-59)(60-79)(80-100)15 3 5 1 24 Fossil Fuels 4.2% 100.0% 12.5% 62.5% 20.8%



Latest Stmt		Short Term Defa	ault Risk - Financi	ial Health Rating		Total
as of	Very High Risk	High Risk	Medium Risk	Low Risk	Very Low Risk	Companies
October 11, 2023	3 (0-19)	(20-39)	(40-59)	(60-79)	(80-100)	
Nuclean		2	3	1		6
Nuclear		33.3%	50.0%	16.7%		100.0%
Nucl	lear	16.7% 50.0%	tisk Distribution	33.3%	;	



Latest Stmt as of October 11, 2023	Very High Risk (0-19)	Short Term Defa High Risk (20-39)	ault Risk - Financi Medium Risk (40-59)	al Health Rating Low Risk (60-79)	Very Low Risk (80-100)	Total Companies
Solar and		4	19			23
Other		17.4%	82.6%			100.0%
		FHR 6	Sisk Distribution	17.4%	& Ot	ther

Current

Quad Box 🗐

# **Electric Power Generation**

Γ	Lat	est Stmt		Short Term D		Hea	Ith Rating			Company	Generation		Current	Current
		as of	Very High Risk	High Risk	Medium Risk	Lo	w Risk	Very Low Risk		Company	Category 🔻	¥	CHS 🔻	FHR ▼
⊢	Octob	er 11, 2023	(0-19)	(20-39)	(40-59)	(6	50-79)	(80-100)		Otter Tail Corp	Fossil Fuel		67	80
	V	ery Strong	Box 19	Box 16	Box 7	B	Вох 4	Box 1		Vistra Corp	Fossil Fuel		73	76
	Score	Health (80-100)								Florida Power & Light Co	Fossil Fuel		60	61
	ž  —	` '				┢				Montauk Renewables Inc	Fossil Fuel		51	74
- 1	Health	Strong Health	Box 20	Box 17	Box 8		Box 5	Box 2		MOSE	ssil Fuel		54	62
	ē	(60-79)			1	П		Not all	Madi	ium Risk FHR	clear		61	52
	- Col	Medium	Box 21	Box 18	Box 9	Н		inot all	MEGI	IUIII NISK FFIN	ssil Fuel		54	51
	בׂב	Health	BOX 21	DOX 19	БОХ 9		$C \cap$	mnanie	oc are	created equal.	ssil Fuel		45	49
	Viability	(40-59)		2	45		CO	прати	.5 arc	cicatea equai.	dro		54	48
	<u>-</u> ا	Poor	Box 24	Box 22	Box 14	R	ox 12	Box 10		віаск ніііs Corp	Hydro		49	48
	erm	Health	DOX 21			آ ا	OK 12	50X 10		Wisconsin Electric Power Co	Fossil Fuel		52	47
	Medium	(20-39)		9	5					Progress Energy Inc	Fossil Fuel		53	45
	Jed	Very Poor	Box 25	Box 23	Box 15	В	lox 13	Box 11		Dominion Energy Inc	Fossil Fuel		47	41
	[ ]	Health								Altus Power Inc	Solar & Other		27	54
		(0-19)		1	1					Polaris Renewable Energy Inc	Solar & Other		38	51
						_				Nextera Energy Partners LP	Solar & Other		27	45
			Elec	tric Genera	tion %					Heliogen Inc	Solar & Other		10	43

Electric Gen	eration	%
Quadrant A	9	13%
Quadrant A-9	45	63%
Quadrant B	6	8%
Quadrant C	10	14%
Quadrant D	2	3%
Total	72	100%

1.4655	ssil Fuel	54	62	6
dium Diek FLID	clear	61	52	8
dium Risk FHR	ssil Fuel	54	51	9
e created equal	ssil Fuel	45	49	9
c created equal	· dro	54	48	9
віаск ніііs Corp	Hydro	49	48	9
Wisconsin Electric Power Co	Fossil Fuel	52	47	9
Progress Energy Inc	Fossil Fuel	53	45	9
Dominion Energy Inc	Fossil Fuel	47	41	9
Altus Power Inc	Solar & Other	27	54	14
Polaris Renewable Energy Inc	Solar & Other	38	51	14
Nextera Energy Partners LP	Solar & Other	27	45	14
Heliogen Inc	Solar & Other	10	43	15
Avista Corp	Hydro	41	36	18
Edison International	Hydro	41	35	18
Avangrid Inc	Fossil Fuel	35	36	22
Constellation Energy Corp	Solar & Other	31	34	22
Pacific Gas and Electric Co	Nuclear	35	33	22
NRG Energy Inc	Fossil Fuel	22	24	22
Pineapple Energy Inc	Solar & Other	21	24	22
Nuscale Power Corp	Nuclear	9	39	23
		•		

# • • • • • • • • • • DON'T ROLL THE DICE ON RISK

		Annual Tra	nsition Mat	rix (Electric F	ower Gener	ation)			
51 companies (71%) stayed within the same Quadrant Zone.		Quadrant A	Quadrant A-9	Quadrant B	Quadrant D	Qua	mig	ompanies (18 grated to mor Quadrant Zor	œ .
	Quadrant A	5	3	2		1	$\neg$	11	
	Quadrant A-9	1	39	1	1	3		45	
	Quadrant B	1	1	3		2		7	
	Quadrant D		2					2	
	. (440()	2		_	1	4		7	
mig	ompanies (11%) rated to less risky	9	45	6	2	10		72	
Q	uadrant Zones.								

# Electric Power Generation

	Company	Generation	Current	Current	Current	P	Prior Year	Prior Year	Prior Year	Chg In	Chg In
	Company	Category 🔻 🔻	CHS 🕶	FHR 🔻	Quadrant 🔻	ĮΨ	CHS 🔻	FHR ▼	Quadrant 🔻	CHS 🕶	FHR ▼
	NRG Energy Inc	Fossil Fuel	22	24	Quadrant C		80	80	Quadrant A	(58)	(56)
bo	Avangrid Inc	Fossil Fuel	35	36	Quadrant C		40	51	Quadrant A-9	(5)	(15)
ng	Constellation Energy Corp	Solar & Other	31	34	Quadrant C		44	45	Quadrant A-9	(13)	(11)
si K	Clearway Energy Inc	Fossil Fuel	26	45	Quadrant B		69	72	Quadrant A	(43)	(27)
reas Risk	Altus Power Inc	Solar & Other	27	54	Quadrant B		45	66	Quadrant A	(18)	(12)
5 X	Avista Corp	Hydro	41	36	Quadrant D		44	41	Quadrant A-9	(3)	(5)
Increasi Risk	Nuscale Power Corp	Nuclear	9	39	Quadrant C		9	43	Quadrant B	0	(4)
<u>-</u>	Old Dominion Electric Cooperative	Solar & Other	31	29	Quadrant C		29	42	Quadrant B	2	(13)
	IDACORP Inc	Hydro	47	53	Quadrant A-9		46	61	Quadrant A	1	(8)
	Pineapple Energy Inc	Solar & Other	21	24	Quadrant C		16	33	Quadrant C	5	(9)
No	VivoPower International PLC	Solar & Other	23	20	Quadrant C		17	22	Quadrant C	6	(2)
	Pacific Gas and Electric Co	Nuclear	35	33	Quadrant C		35	31	Quadrant C	0	2
Chg	Heliogen Inc	Solar & Other	10	43	Quadrant B		9	42	Quadrant B	1	1
	Polaris Renewable Energy Inc	Solar & Other	38	51	Quadrant B		29	51	Quadrant B	9	0
in	Montauk Renewables Inc	Fossil Fuel	51	74	Quadrant A		66	84	Quadrant A	(15)	(10)
Zone	Otter Tail Corp	Fossil Fuel	67	80	Quadrant A		71	79	Quadrant A	(4)	1
ZUHE	Florida Power & Light Co	Fossil Fuel	60	61	Quadrant A		58	60	Quadrant A	2	1
	Edison International	Hydro	41	35	Quadrant D		31	33	Quadrant C	10	2
D	Pepco Holdings LLC	Solar & Other	43	42	Quadrant A-9		38	52	Quadrant B	5	(10)
_ _	DTE Energy Co	Solar & Other	55	49	Quadrant A-9		42	34	Quadrant D	13	15
reas	Brookfield Renewable Corp	Solar & Other	51	43	Quadrant A-9		51	39	Quadrant D	0	4
S P	Entergy Texas Inc	Nuclear	54	60	Quadrant A		52	58	Quadrant A-9	2	2
k ist	NextEra Energy Inc	Nuclear	61	52	Quadrant A		35	36	Quadrant C	26	16
ng	Vistra Corp	Fossil Fuel	73	76	Quadrant A		13	30	Quadrant C	60	46



#### NRG Energy Inc

#### High default risk, with poor Core Health.

Our View: NRG Energy Inc's Financial Health Rating (FHR) was a very unimpressive 24 (0=worst, 100=best) for the four quarters ending June 30, 2023, and represents a 56 point downgrade as compared to a year earlier. This rating lowers the company to the bottom half of our High Risk group, with an estimated probability of default of 6.4% over the next 12 months. This FHR and the default risk level are the result of Poor Core Health and current weakness in liquidity and earnings performance.

Figure 1: FHR Trend, Q1 2015 to Q2 2023



#### The FHR® Report

#### **Corporate Risk Analysis**

Financial Period: Jun 30, 2023, (fiscal Q2 2023)

FHR Release Date: August 10, 2023

Ticker: NRG

Sector: Energy Miscellaneous

Address: 211 Carnegie Center, Princeton, NJ 08540-

6213, United States.

FHR: 24

Risk Level: High Risk

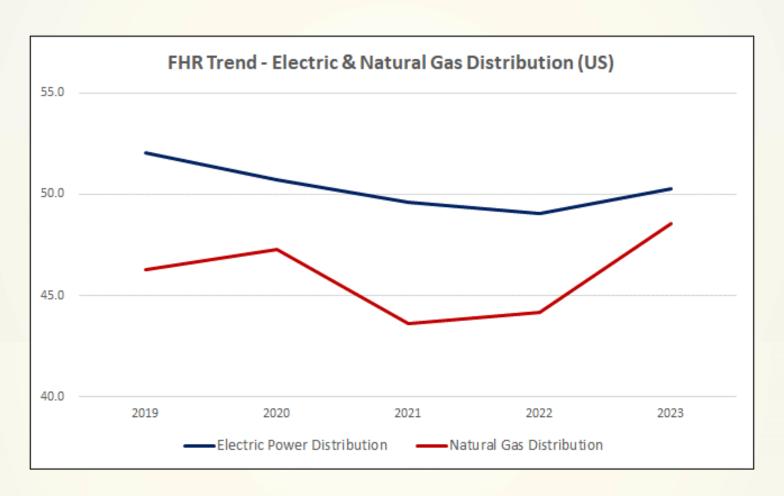
Estimated Probability of Default: 6.4%
Annual Delta: -56 rating points

Core Health: 22 (Poor Health)

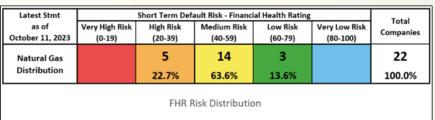
Table 1: Key Data and Ratio (USD B)

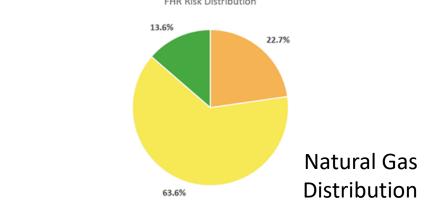
Rating Data	2021	2022	Q2 2023
Financial Health Rating	70	54	24
Core Health Score	80	68	22
Simulated FHR	72	58	24
Key Data and Ratios	2021	2022	Q2 2023
Total Assets (B)	23.18	29.15	28.99
Total Liabilities (B)	19.58	25.32	25.66
Total Revenues (B)	26.99	31.54	30.43
EBITDA (B)	4.29	2.93	-1.09
Total Rev / Total Asset	1.16	1.08	1.05
Op Profit / Total Rev (%)	12.09	6.40	-7.15
Op Profit / Interest Exp	6.73	4.84	-4.28
FCF / Total Debt	0.03	0.00	-0.36
ROCE (%)	28.03	16.82	-14.02

Very Low Risk (80 - 100) Low Risk (60 - 79) Medium Risk (40 - 5
High Risk (20 - 39) Very High Risk (0 - 19)



Latest Stmt		Short Term Defa	ault Risk - Financi	al Health Rating		Total
as of October 11, 2023	Very High Risk (0-19)	High Risk (20-39)	Medium Risk (40-59)	Low Risk (60-79)	Very Low Risk (80-100)	Companies
Electric Power		1	60			
Distribution		15.0%	73.3%	10.0%	1.7%	100.0%
		EHR R	isk Distributio	n		
		1111	1.7%	···		
		10.0%	1.770	15.0%		
Electric	,					
Electric	•					
Distribu	ıtion	7	3.3%			
		,	3.3/0			





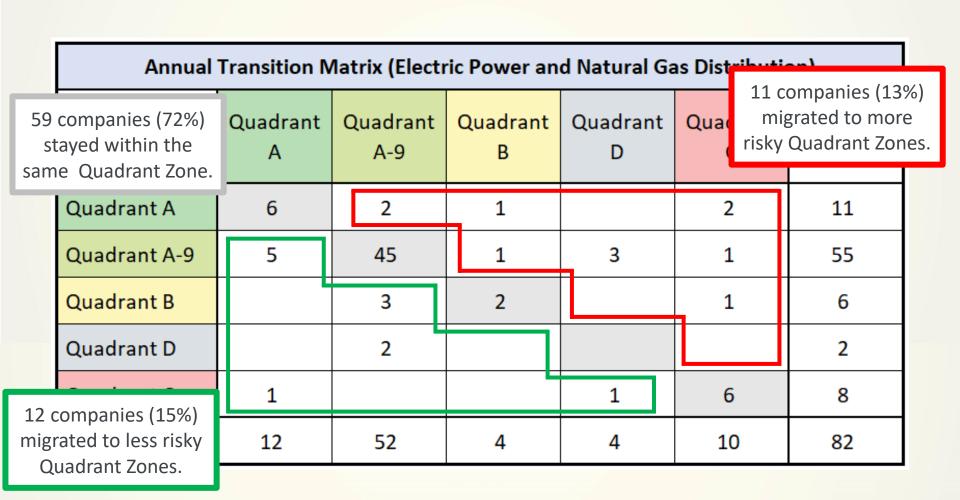
## **Electric Power Distribution**

## Natural Gas Distribution

Г	Latest Stmt		Short Term D		He	alth Rating				Latest Stmt		Short Term D		Health Rating	
ı	as of	Very High Risk	High Risk	Medium Risk	Lo	ow Risk	Very Low Risk			as of	Very High Risk	High Risk	Medium Risk	Low Risk	Very Low Risk
00	tober 11, 2023	(0-19)	(20-39)	(40-59)	(	60-79)	(80-100)		Oc	tober 11, 2023	(0-19)	(20-39)	(40-59)	(60-79)	(80-100)
core	Very Strong Health (80-100)	Box 19	Box 16	Box 7		Box 4	Box 1	-	Score	Very Strong Health (80-100)	Box 19	Box 16	Box 7	Box 4	Box 1
1	Strong	Box 20	Box 17	Box 8		Box 5	Box 2		윺	Strong	Box 20	Box 17	Box 8	Box 5	Box 2
ore Hea	Health (60-79)			1	L		Not all	Medi	ur	n Risk	FHR		1	1	
۲۰	Medium	Box 21	Box 18	Box 9		l						Box 18	Box 9	Box 6	Box 3
/iability	Health (40-59)		3	40	L	CO	mpanie	es are	are created equal.				12	2	
Ę	Poor	Box 24	Box 22	Box 14	ı	Box 12	Box 10		Term	Poor	Box 24	Box 22	Box 14	Box 12	Box 10
ium Te	Health (20-39)		4	3					ium Te	Health (20-39)		1	1		
Med	Very Poor	Box 25	Box 23	Box 15	ı	Box 13	Box 11		Medium	Very Poor	Box 25	Box 23	Box 15	Box 13	Box 11
Ĺ	Health (0-19)		2							Health (0-19)		3			

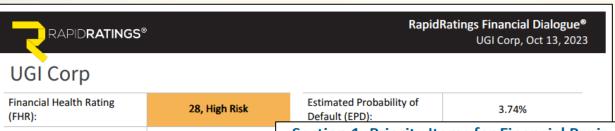
Electric Dist	ribution	%
Quadrant A	8	13%
Quadrant A-9	40	67%
Quadrant B	3	5%
Quadrant C	6	10%
Quadrant D	3	5%
Total	60	100%

Natural Gas Di	stribution	%
Quadrant A	4	18%
Quadrant A-9	12	55%
Quadrant B	1	5%
Quadrant C	4	18%
Quadrant D	1	5%
Total	22	100%



## Electric Power and Natural Gas Distribution

		Company	Distribution		Current	Current	Current		<b>Prior Year</b>	Prior Year	Prior Year	C	hg In	Chg In	
		Company	Category -	v	CHS 🔻	FHR ▼	Quadrant 🔻	v	CHS ▼	FHR ▼	Quadrant 🔻 📊	r (	CHS 🔻	FHR 🔻	
		UGI Corp	Natural Gas		18	28	Quadrant C		57	67	Quadrant A		(39)	(39)	
ഇ		Martin Midstream Partners LP	Natural Gas		39	35	Quadrant C		65	53	Quadrant A		(26)	(18)	
· <u>;</u>		VIA RENEWABLES INC	Electric		26	48	Quadrant B		78	78	Quadrant A		(52)	(30)	
Increasing	sk	Great River Energy	Electric		37	38	Quadrant C		45	40	Quadrant A-9		(8)	(2)	
ല	<u>~</u>	FirstEnergy Corp	Electric		47	38	Quadrant D		55	54	Quadrant A-9		(8)	(16)	
$\overline{\mathbf{c}}$		Puget Energy Inc	Electric		33	47	Quadrant B		41	46	Quadrant A-9		(8)	1	
_		Macquarie Infrastructure Holdings	Natural Gas		18	26	Quadrant C		19	50	Quadrant B		(1)	(24)	
		RGC Resources Inc	Natural Gas		16	37	Quadrant C		10	47	Quadrant B		6	(10)	
		Tri-State Generation & Transmsn	Electric		24	28	Quadrant C		36	30	Quadrant C		(12)	(2)	
Ν	0	Southwest Gas Holdings Inc	Natural Gas		17	34	Quadrant C		25	31	Quadrant C		(8)	3	
Ck		Blink Charging Co	Electric		10	35	Quadrant C		10	38	Quadrant C		0	(3)	
Ch	ıg	Oglethorpe Power Corporation	Electric		31	34	Quadrant C		31	36	Quadrant C		0	(2)	
ir	1	ChargePoint Holdings Inc	Electric		14	33	Quadrant C		11	34	Quadrant C		3	(1)	
"	•	AES Corp	Electric		27	32	Quadrant C		13	30	Quadrant C		14	2	
Zo	ne	Northwest Natural Holding Co	Natural Gas		33	48	Quadrant B		31	41	Quadrant B		2	7	
		ALLETE Inc	Electric		36	55	Quadrant B		37	43	Quadrant B		(1)	12	
		Public Service Company of OK	Electric		40	52	Quadrant A-9		41	35	Quadrant D		(1)	17	
	De	Duke Energy Ohio Inc	Electric		50	47	Quadrant A-9		38	44	Quadrant B		12	3	
	C	Sempra	Electric		52	46	Quadrant A-9		32	48	Quadrant B		20	(2)	
<u> </u>	Te	Southern California Gas Co	Natural Gas		53	42	Quadrant A-9		16	43	Quadrant B		37	(1)	
Risk	a	New Fortress Energy Inc	Natural Gas		73	61	Quadrant A		52	49	Quadrant A-9		21	12	
	Si.	Atmos Energy Corporation	Natural Gas		51	63	Quadrant A		48	48	Quadrant A-9		3	15	
	<b>₩</b>	Southern California Edison Co	Electric		41	37	Quadrant D		32	36	Quadrant C		9	1	
	-	Public Service Enterprise Group	Electric		67	63	Quadrant A		14	33	Quadrant C		53	30	



#### High default risk, with very poor Core Health.

Quadrant C: These companies demonstrate poor to very poor Core He (suggesting the need for efficiency improvements) combined with a hi to very high risk of default over the next year.

18, Very Poor Health

#### Dialogue Context:

Core Health Score (CHS):

Companies which fall into Quadrant C should be able to discuss their to deliver significant improvement/relief in some or all of the areas discussed in this report within a reasonable time frame.

#### Section 1: Priority Items for Financial Review

maintain this level of leverage for the next 12 months?

Table below presents the prioritized review items and recommended questions based on our analysis of the financial statements ending 06/30/2023.

#### Table 1: Prioritized Items of Concern for Discussion

#### Items of Concern (5)

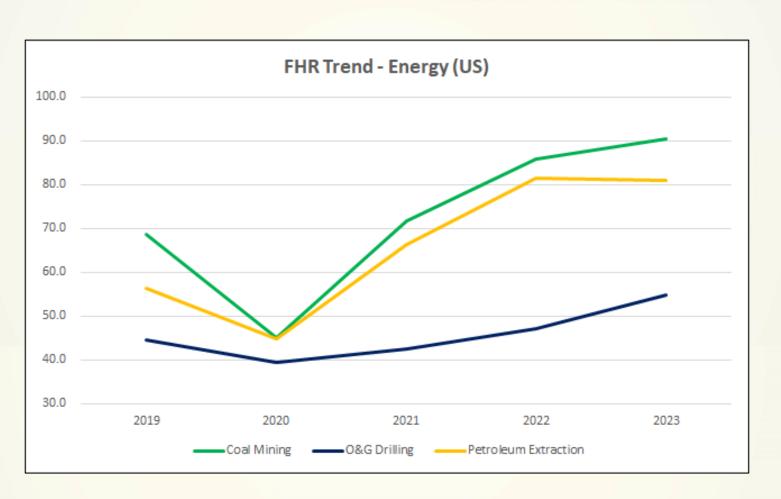
- 1. Interest Coverage: The company was unable to cover any of its interest (\$365 M) with operating profit as it is currently running with an operating loss (-\$1,387 M). Do you expect your interest obligation to change materially over Page the next year, and do you expect to cover this through operating profit or cash balances?
- 2. Leverage: The company has a significant level of debt at \$7,116 M, which is 47% of total assets. Do you expect to See Page

See

Page

- 3. Change in Sales: Sales for the trailing 12 months have decreased 6.4% since the prior year end. What has caused the See decline in sales? Page
- 4. Profit Margins: Profitability performance was poor. Both the company's operating profit margin (-14.7%) and net See profit margin (-14.7%) show a loss. What caused the losses and do you expect to generate a positive return next year? Page
- 5. Abnormal Item: The financials include an abnormal item of -\$903 M. The simulated rating with this item excluded is 32, so the item is not having a meaningful impact on the company's current level of health. Can you provide details of the significant item, and do you expect subsequent items in the future?

## • • • DON'T ROLL THE DICE ON RISK

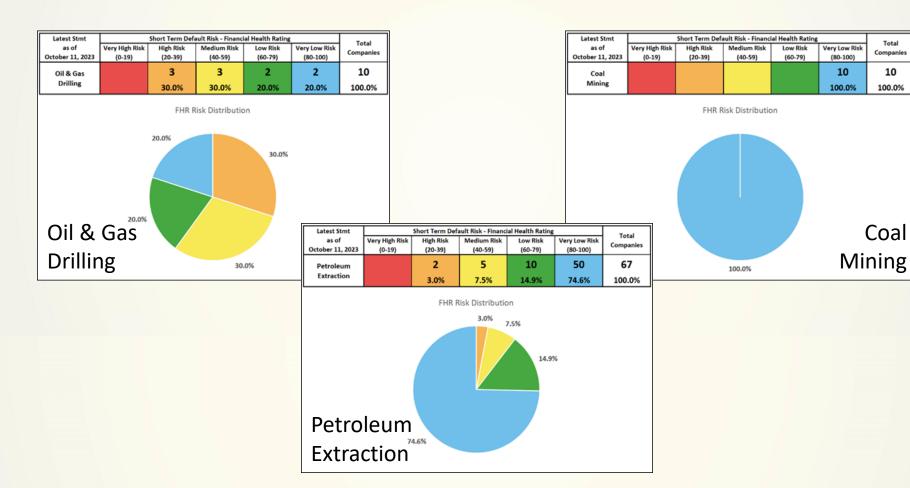


Total

Companies

10

100.0%



Current

80

81

81

81

76

63

79

CHS -

Current

FHR

97

91

81

81

95

88

86

Current

Quad Box 🔻

1

1

1

1

2

2

2

Energy

Category

Petroleum Extraction

Petroleum Extraction

Coal Mining

## Energy

					<i></i>					
	Latest Stmt		Short Term D	À		H	Hea	Ith Rating		
1	as of	Very High Risk	High Risk		Medium Risk		Lo	w Risk	Very Low Risk	1
Oc	tober 11, 2023	(0-19)	(20-39)	L	(40-59)		(60-79)		(80-100)	
	Very Strong	Box 19	Box 16		Box 7	П	E	Box 4	Box 1	
l e	Health					П				
cor	(80-100)								14	
Core Health Score	Strong	Box 20	Box 17		Box 8	П	E	Box 5	Box 2	
leal	Health					П				
re	(60-79)					П			Not all	٨
	Medium	Box 21	Box 18		Box 9				I NOT all	IV
lity	Health	50/12	50X 20		SONS	П		$C \cap$	mpanie	ےر
iabi	(40-59)				1	П			прап	ر ی
Medium Term Viability -	Poor	Box 24	Box 22		Box 14	П	—	ox 12	Box 10	
Ter	Health					П				
E I	(20-39)		2		1					
ledi	Very Poor	Box 25	Box 23		Box 15		В	ox 13	Box 11	
2	Health	22.1, 20					_			
	(0-19)		3		6			1		
_										

	Hallador Energy Co	l Mining		
	Arch Resources Inc	l Mining		
			Mining	
: اہ	Luna Diale FLID		oleum Extraction	
<u>-</u> (a)	ium Risk FHR		oleum Extraction	
			Drilling	
are	created equal.	Drilling		
	<u>'</u>		oleum Extraction	

Company

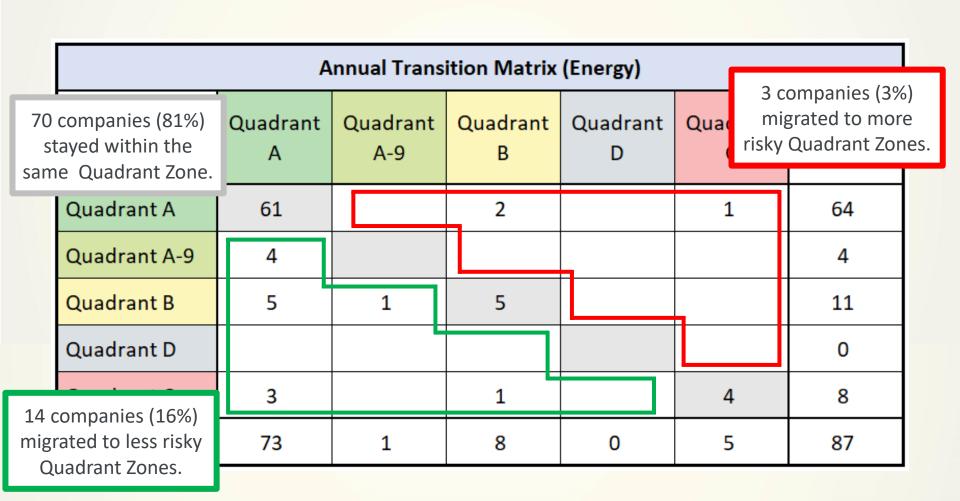
Alpha Metallurgical Resources

Range Resources Corp

Battalion Oil Corp

)	ium Risk FHR		oleum Extraction	70	82	2
_	ا میروم ام میروما		Drilling	67	85	2
e created equal.			Drilling	70	81	2
	'		oleum Extraction	70	78	5
	Talos Energy Inc	Pet	roleum Extraction	64	66	5
	Highpeak Energy Inc	0&	G Drilling	79	74	5
	Noble Corporation PLC	0&	G Drilling	53	69	6
	Nabors Industries Ltd.	0&	G Drilling	46	56	9
	Spindletop Oil and Gas Co	Pet	roleum Extraction	13	63	13
	Independence Contract Drilling	0&	G Drilling	29	44	14
	Barnwell Industries Inc	Pet	roleum Extraction	16	53	15
	Houston American Energy Corp	Pet	roleum Extraction	9	53	15
	U.S. Energy Corp.	Pet	roleum Extraction	18	41	15
	Zion Oil and Gas Inc	Pet	roleum Extraction	13	46	15
	Tellurian Inc	Pet	roleum Extraction	12	52	15
	Vantage Drilling International	0&	G Drilling	14	40	15
	Empire Petroleum Corp	Pet	roleum Extraction	21	31	22
	Diamond Offshore Drilling Inc	0&	G Drilling	35	34	22
	Transocean LTD	0&	G Drilling	14	37	23
	Camber Energy Inc	Pet	roleum Extraction	19	20	23
	Prairie Operating Co	0&	G Drilling	16	27	23

Energ	у	%
Quadrant A	73	84%
Quadrant A-9	1	1%
Quadrant B	8	9%
Quadrant C	5	6%
Quadrant D	0	0%
Total	87	100%



Energy

Bu					Energ	ЭУ					
Increasing Risk	Company	Energy Category	¥	Current CHS 🔻	Current FHR 🔻	Current Quadrant	Prior Year CHS 🔻	Prior Year FHR 🔻	Prior Year Quadrant ▼ n	Chg In CHS ▼	Chg In FHR ▼
re. Ri	Empire Petroleum Corp	Petroleum Extraction		21	31	Quadrant C	53	69	Quadrant A	(32)	(38)
UC	Barnwell Industries Inc	Petroleum Extraction		16	53	Quadrant B	50	81	Quadrant A	(34)	(28)
	Spindletop Oil and Gas Co	Petroleum Extraction		13	63	Quadrant B	61	85	Quadrant A	(48)	(22)
No	VAALCO Energy, Inc.	Petroleum Extraction		63	77	Quadrant A	83	94	Quadrant A	(20)	(17)
110	Unit Corp	Petroleum Extraction		74	96	Quadrant A	60	77	Quadrant A	14	19
Chg	U.S. Energy Corp.	Petroleum Extraction		18	41	Quadrant B	34	52	Quadrant B	(16)	(11)
0.18	Tellurian Inc	Petroleum Extraction		12	52	Quadrant B	9	43	Quadrant B	3	9
in	Camber Energy Inc	Petroleum Extraction		19	20	Quadrant C	20	27	Quadrant C	(1)	(7)
7	Transocean LTD	O&G Drilling		14	37	Quadrant C	17	34	Quadrant C	(3)	3
Zone	Diamond Offshore Drilling Inc	O&G Drilling		35	34	Quadrant C	12	33	Quadrant C	23	1
	Sitio Royalties Corp	Petroleum Extraction		41	60	Quadrant A	50	54	Quadrant A-9	(9)	6
	Battalion Oil Corp	Petroleum Extraction		81	81	Quadrant A	50	51	Quadrant A-9	31	30
	Crescent Energy Co	Petroleum Extraction		76	81	Quadrant A	42	50	Quadrant A-9	34	31
	CNX Resources Corp	Petroleum Extraction		78	86	Quadrant A	55	50	Quadrant A-9	23	36
De	EQT Corp	Petroleum Extraction		77	89	Quadrant A	17	37	Quadrant C	60	52
ec	Nabors Industries Ltd.	O&G Drilling		46	56	Quadrant A-9	15	43	Quadrant B	31	13
creas Risk	Helmerich and Payne Inc	O&G Drilling		67	85	Quadrant A	12	57	Quadrant B	55	28
sk S	Liberty Energy Inc	Petroleum Extraction		82	82	Quadrant A	35	52	Quadrant B	47	30
asii sk	Berry Corporation (Bry)	Petroleum Extraction		77	83	Quadrant A	31	50	Quadrant B	46	33
ng	Amplify Energy Corp	Petroleum Extraction		79	90	Quadrant A	37	44	Quadrant B	42	46
04	Gulfport Energy Corp	Petroleum Extraction		78	93	Quadrant A	25	40	Quadrant B	53	53
	Independence Contract Drilling	O&G Drilling		29	44	Quadrant B	17	26	Quadrant C	12	18
	Hallador Energy Co	Coal Mining		81	81	Quadrant A	18	36	Quadrant C	63	45
	Patterson-UTI Energy, Inc.	O&G Drilling		70	81	Quadrant A	13	32	Quadrant C	57	49

# RapidRatings

Company Comparison Report
Petroleum Extraction, October 13, 2023

#### **Petroleum Extraction Comparison Report**

Names in this report have been abbreviated as follows - Amplify Energy Corp: AMPF. Empire Petroleum: EMPR. Kosmos Energy Ltd: KOSMO. Tellurian Inc: TELL. U.S. Energy Corp.: USENG.

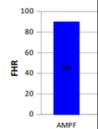
This report presents all financials in USD.

Table 1: FHR Scores

Company Name	Short Name	Dec-2020
Amplify Energy Corp	AMPF	35
Empire Petroleum	EMPR	19
Kosmos Energy Ltd	KOSMO	35
Tellurian Inc	TELL	29
U.S. Energy Corp.	USENG	35

Very Low Risk (80 − 100) Low Risk (60 − 79) Medium Risk (4

Figure 1: Financial Health Ratings (FHRs), Petroleum Extraction



	AMPF	EMPR	коѕмо	TELL	USENG	Average
Profitability Ratios						
Gross Profit Margin (%)	64.64	30.58	79.45	74.98	18.59	53.65
Sales to Assets Ratio	0.53	0.68	0.34	0.21	0.34	0.42
Return on Assets (%)	61.48	-11.12	4.46	-5.58	-1.30	9.59
Liquidity Ratios						
Current Ratio	0.87	0.95	0.80	1.05	0.52	0.84
Quick Ratio	0.64	0.72	0.37	1.03	0.42	0.64
Cash Ratio	0.02	0.10	0.16	0.80	0.12	0.24
Leverage Ratios						
Debt to Equity Ratio	0.34	0.35	2.63	0.84	0.16	0.86
Operating Profit to Interest Expense (x)	11.32	-7.47	3.00	-4.99	-4.60	-0.55
Total Debt to Total Assets (%)	16.77	10.12	49.37	40.18	10.64	25.42
Turnover Ratios						
Inventory Days	n/a	18.79	208.13	n/a	n/a	113.46
Payable Days	64.01	50.78	286.79	273.38	29.59	140.91
Receivable Days	61.00	65.21	18.24	21.54	25.76	38.35
n/a: This data point is either Not Available or Not Applicable						



PARK MGM > LAS VEGAS, NV > OCTOBER 17-20, 2023





# **Appendix**

(Non-Financial Questions)

#### **SWOT**



Strengths

Low Customer Class Concentration High Profit vs. Sector Average



Weaknesses

High Product/Service Concentration

Low Revenue per Employee

**High Capital Requirements** 



Opportunities

High Revenue Growth (2018-2023)

High Revenue Growth (2023-2028)

**High Performance Drivers** 

Price of electric power



Threats

Low Revenue Growth (2005-2023)

Low Outlier Growth

Housing starts

# **Role Specific Questions**

## Sales & Marketing

## How is your company impacted by imported energy from Canada?

- In general, this sector experiences only minimal import penetration from Canada.
- States that do border Canada, such as New York, do face a higher level of import competition.

# Does your company have a diversified client base, or are sales heavily dependent on one market (commercial, residential, industrial, transportation?

 Having a diversified client base, such as customers from different markets, including the residential, commercial and industrial sectors, will likely keep companies in this sector from performing poorly if a specific market they provide electricity to experiences a downturn.

## Strategy & Operations

## What steps do you take to retain talented employees with specialized knowledge?

- Retaining talent is of paramount importance to companies in this sector as a large portion of jobs within the sector require skilled laborers.
- Companies in this industry offer high salaries and competitive benefits package to retain talent.

## Have volatile input prices affected your company over the past few years? How have you adapted?

- Operators make both profit and revenue based upon the price of natural gas.
- By increasing customers, revenue can protected from volatile prices oil and gas.

#### Technology

# How has your company been affected by the growth of electricity generated by renewable resources?

- Renewable portfolio standards (RPS) in various states will have some effect on what type of resource a company procures it's electricity from.
- Growing renewable electricity generation has the ability to drive prices down should all other generating capacity be held constant.
- For example, New York State's RPS sets a goal for 50.0% of all energy in the state being procured from renewable resources by 2030.

#### Have you been able to use automation to reduce wage costs over the past five years?

- Operators in this sector have continually reduced wage costs through automation over the five years to 2021.
- Technology such as smart meters help companies to provide better more efficient means of tracking energy usage and could lead to long-term cost savings.
- Drones have been approved for commercial use by the Federal Aviation Administration and this
  opens up a wide number of applications including using them to monitor transmission lines instead
  of using costly linesmen.

## Compliance

### How does your company stay ahead of regulations?

- State energy standards company's in this industry by setting mandates on the amount of energy procured from certain resources.
- The most significant example is New York State's Clean Energy Standard, which mandates a target of 50.0% energy procured from renewable resources by 2030.

## How does your company ensure all health and safety requirements are met?

- Keeping a minimum level of health and safety is of paramount importance to operators in this industry.
- If health and safety standards are not met, a company could potentially face fines.

#### Finance

### How has input price volatility affected profit over the past year?

- Falling natural gas prices have benefited companies that purchase electricity generated from this
  resource.
- Companies that have purchasing contracts with clients that produce electricity from various sources will be most successful in managing price volatility.

## How does your company's profit compare with your main competitors'?

- Profit has increased during the period.
- Companies that are able to diversify their client base and procure electricity from inexpensive resources will likely be most able to maintain profit in the long run.

# **External Impacts Questions**

## Regulation for the Utilities Sector

How does changing regulation affect your business? How do you anticipate and solve compliance issues?

- Regulatory agencies oversee the pricing, reliability and safety of sector services.
- Rising regulations give less leeway for companies to sell and produce energy as they would like to.
   This results in an increase in production cost which decreases profit margin.
- At the same time, when production cost increases, consumers bear the cost by paying more for consumption of electricity.
- To solve the compliance issues, the company has to hire compliance experts to oversee day to day
  operations of the business to check every compliance code is met.

## Housing starts

How do changes in the number of housing starts affect businesses in this sector? Do you have contacts in residential construction?

- An increase in housing starts heightens demand for sector services because all industry services are staples in homes.
- As number of houses increases, total consumption of electricity will also increase which will benefit
  industry operators from selling more electricity, improving company revenue and profit margin.

## Electric power consumption

How do changing levels of power consumption affect your business? How can you offset losses resulting from energy-efficient appliances?

- All electricity must be transmitted through this sector's transmission and distribution networks to end-customers. Therefore, electric power consumption typically moves in line with sector demand and revenue.
- Usually losses are offset against energy-efficient appliances when consumption of electronics such as microwave, television and computers increase.
- In 2020 and 2021, we see an increase in consumption of these electronics at home as people are working from home during the COVID-19 (coronavirus) pandemic.

## Ability to pass on cost increases

How easily is your business able to pass on cost increases? If you are unable to raise prices, how will you shore up revenue?

- In about half of US states, policies set by the Federal Energy Regulatory Commission have led to a
  competitive market for power generation. Market forces set wholesale electricity prices. However,
  retail price caps limit the extent to which cost increases can be recovered.
- To shore up revenue, many companies now are opting to enter the clean energy market. This will help them produce energy at a lower cost than they already are and help increase revenue and profit margin.

## Ensure pricing policy is appropriate

## How do you make sure your prices are attractive? Who is your biggest competition based on pricing?

- In general, state governments set maximum retail electricity prices. Operators must adhere to these
  prices or encounter fines and legal problems.
- To make prices more attractive, companies will give free electricity for a month depending on the area and season.
- At the same time, recent trend is to select what type of electricity they want. The consumer can choose electricity produced by clean energy which has a lower price per unit.

## Ability to negotiate successfully with regulator

Have you been able to negotiate with the specific regulator that oversees your business? How have changing regulations affected your operating costs?

- Sector companies are regulated by several government organizations, and operators' performance is contingent upon their ability to receive favorable rulings from regulators.
- Increase or change in regulations affects the cost of running the business as adhering with compliance codes requires capital investment.

