



DIVIDEND YIELD PORTFOLIO

PRESENTED BY:

MRINAL

SAGALJYOT

MUKTA

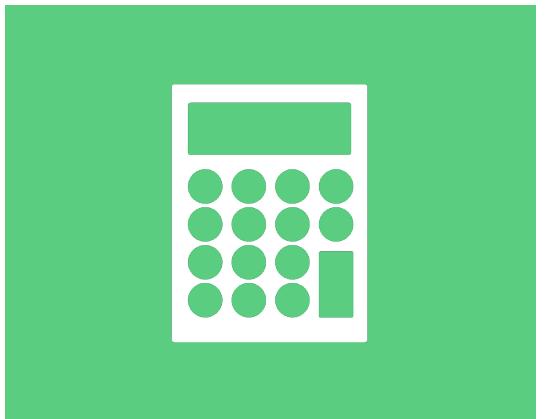
RADHIKA KHURANA

**FINANCIAL
ANALYTICS
ADMN-5006-101**

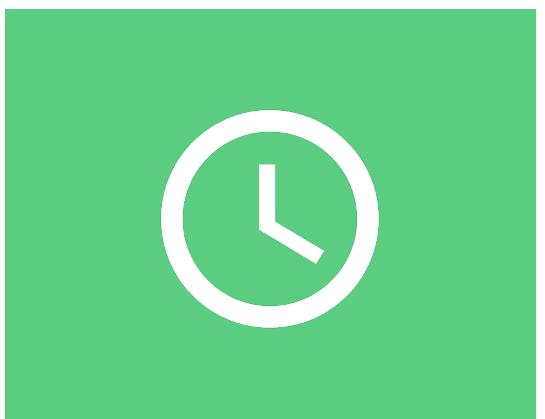
PORTFOLIO

Sector	Market Cap (USD)	Dividend Yield %	Change %	Volume	Stocks
Miscellaneous	209.9 B	7.23	+0.94	554.5K	3734
Energy Minerals	2.596 T	5.00	+2.44	7.901M	121
Communications	857.77 B	4.53	+0.56	11.09M	49
Industrial Services	1.02 T	3.88	+1.69	4.52M	136
Utilities	1.39 T	3.59	-0.69	5.15M	113
Non-Energy Minerals	1.17 T	3.07	+2.91	5.44M	171
Consumer Non-Durables	2.895 T	2.85	-0.79	5.19M	165

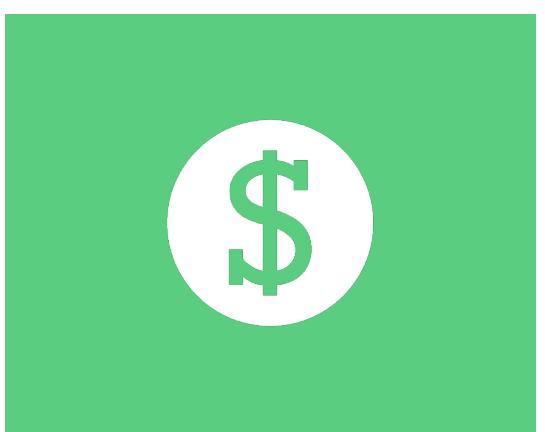
Selection Criteria



P/E < 30



Market Capital >
\$US 10 Billion



Dividend Yield %
> 7%



Energy Minerals

Symbol 121			Volume	Rel Volume	↓ Market cap	P/E	EPS dil TTM	EPS dil growth TTM YOY	Div yield % TTM
 XOM	Exxon Mobil Corporation 		22.075M	0.97	398.811B USD	9.90	10.06 USD	-18.05%	3.70%
 CVX	Chevron Corporation 		10.822M	0.88	271.598B USD	10.73	13.45 USD	-23.48%	4.19%
 SHEL	Shell PLC 		5.832M	1.07	207.158B USD	7.62	8.42 USD	-26.47%	3.86%
 TTE	TotalEnergies SE 		893.672K	0.71	156.805B USD	8.36	7.96 USD	-10.38%	3.79%
 COP	ConocoPhillips 		5.714M	1.02	133.073B USD	12.24	9.15 USD	-34.28%	3.49%
 BP	BP p.l.c. 		8.231M	1.00	99.229B USD	4.17	8.46 USD	-	4.66%
 PBR	Petroleo Brasileiro S.A.- ... 		19.778M	1.17	94.7B USD	3.61	4.12 USD	-20.93%	18.83%
 PBR.A	Petroleo Brasileiro S.A.- ... 		9.577M	1.21	94.7B USD	3.40	4.12 USD	-20.93%	20.00%
 EQNR	Equinor ASA 		1.844M	0.66	92.093B USD	5.56	5.54 USD	-26.91%	2.90%
 EOG	EOG Resources, Inc. 		3.858M	1.16	69.371B USD	8.84	13.46 USD	+5.76%	4.88%
 CNQ	Canadian Natural Resource... 		4.636M	1.36	67.543B USD	13.19	4.73 USD	-36.14%	4.19%
 PSX	Phillips 66 		4.103M	0.99	55.135B USD	7.56	16.58 USD	-24.17%	3.35%



Communication

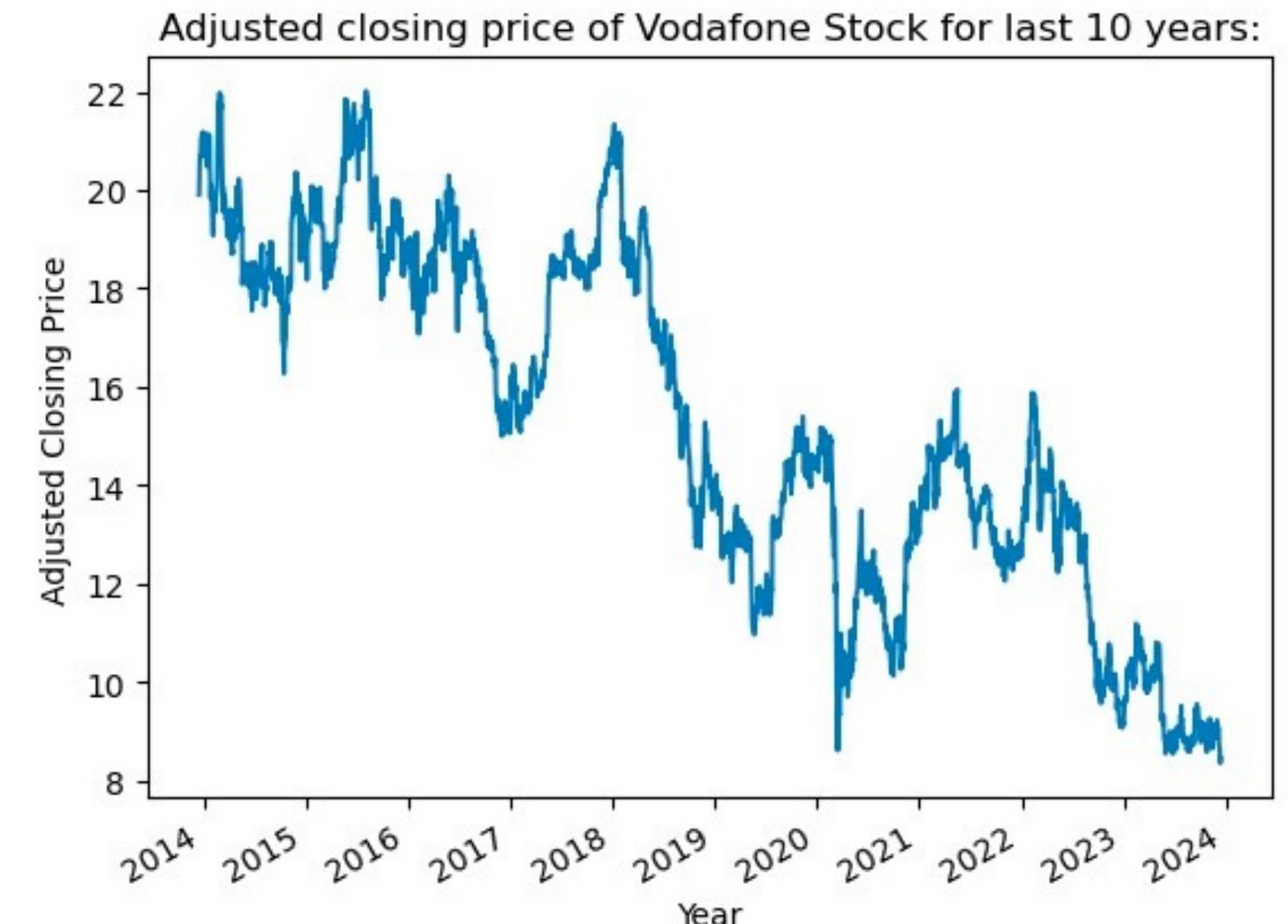
Symbol 51		Volume	Rel Volume	↓ Market cap	P/E	EPS dil TTM	EPS dil growth TTM YoY	Div yield % TTM
 TMUS T-Mobile US, Inc. ^D		3.791M	0.92	180.873B USD	24.25	6.45 USD	+427.99%	0.42%
 VZ Verizon Communications Inc. ^D		21.85M	1.14	160.807B USD	7.71	4.96 USD	+7.88%	6.86%
 T AT&T Inc. ^D		42.137M	1.14	120.978B USD	—	-1.63 USD	-160.30%	6.56%
 AMX America Movil, S.A.B. de ... ^{DR}		851.072K	0.62	57.065B USD	14.86	1.23 USD	-7.88%	2.91%
 BCE BCE, Inc. ^D		1.327M	0.90	37.047B USD	22.65	1.79 USD	-19.62%	6.92%
 ORAN Orange ^{DR}		221.995K	0.67	31.839B USD	18.96	0.63 USD	+49.62%	4.83%
 CHT Chunghwa Telecom Co., ... ^{DR}		91.772K	0.82	29.722B USD	24.71	1.54 USD	-5.87%	3.02%
 TU Telus Corporation ^D		1.554M	0.93	26.859B USD	45.19	0.41 USD	-61.08%	5.70%
 TLK PT Telekomunikasi Indon... ^{DR}		210.162K	0.69	24.98B USD	15.98	1.57 USD	+0.49%	3.37%
 TEF Telefonica SA ^{DR}		1.343M	2.25	24.846B USD	13.35	0.32 USD	+2173.24%	5.46%
 RCI Rogers Communication, Inc. ^D		234.828K	0.58	24.042B USD	30.48	1.49 USD	-33.70%	3.24%
 VOD Vodafone Group Plc ^{DR}		6.036M	0.79	23.612B USD	2.21	3.95 USD	—	10.81%
 VIV Telefonica Brasil S.A. ^{DR}		777.644K	0.44	17.958B USD	19.81	0.54 USD	-12.92%	2.37%



Communication

Symbol 51			Volume	Rel Volume	↓ Market cap	P/E	EPS dil TTM	EPS dil growth TTM YoY	Div yield % TTM
 ORAN	Orange	 DR	221.995K	0.67	31.839B USD	18.96	0.63 USD	+49.62%	4.83%
 CHT	Chunghwa Telecom Co., ...	 DR	91.772K	0.82	29.722B USD	24.71	1.54 USD	-5.87%	3.02%
 TU	Telus Corporation	 DR	1.554M	0.93	26.859B USD	45.19	0.41 USD	-61.08%	5.70%
 TLK	PT Telekomunikasi Indon...	 DR	210.162K	0.69	24.98B USD	15.98	1.57 USD	+0.49%	3.37%
 TEF	Telefonica SA	 DR	1.343M	2.25	24.846B USD	13.35	0.32 USD	+2173.24%	5.46%
 RCI	Rogers Communication, Inc.	 DR	234.828K	0.58	24.042B USD	30.48	1.49 USD	-33.70%	3.24%
 VOD	Vodafone Group Plc	 DR	6.036M	0.79	23.612B USD	2.21	3.95 USD	-	10.81%
 VIV	Telefonica Brasil S.A.	 DR	777.644K	0.44	17.958B USD	19.81	0.54 USD	-12.92%	2.37%
 LBRDK	Liberty Broadband Corpora...	 DR	1.108M	0.97	11.077B USD	16.80	4.50 USD	-48.83%	0.00%
 LBRDA	Liberty Broadband Corpora...	 DR	92.209K	0.69	11.077B USD	16.81	4.50 USD	-48.83%	0.00%
 TEO	Telecom Argentina SA	 DR	67.397K	0.19	9.65B USD	21.22	0.39 USD	-	0.00%

Problem with Vodafone



Overview		Performance		Valuation		Dividends		Profitability		Income Statement		More ▾	
Symbol	Name			Volume	Rel Volume		Market cap	P/E	EPS dil	EPS dil growth	Div yield %		
						↓			TTM	TTM YoY	TTM		
 ENB	Enbridge Inc.	D		3.169M	0.58		74.225B USD	31.65	1.10 USD	-43.67%	7.48%		
 SLB	Schlumberger N.V.	D		13.211M	1.61		69.709B USD	16.95	2.88 USD	+38.84%	1.90%		
 WM	Waste Management, Inc.	D		1.639M	1.08		69.479B USD	30.49	5.66 USD	+5.10%	1.62%		
 EPD	Enterprise Products Partner...	D		3.98M	1.10		57.186B USD	10.74	2.45 USD	+6.02%	7.52%		
 RSG	Republic Services, Inc.	D		864.607K	0.79		50.905B USD	31.31	5.17 USD	+12.81%	1.25%		
 ET	Energy Transfer LP	D		17.628M	1.55		44.723B USD	12.54	1.06 USD	-21.26%	9.29%		
 WMB	Williams Companies, Inc. (...	D		5.502M	0.84		43.21B USD	16.05	2.21 USD	+35.09%	4.98%		
 LNG	Cheniere Energy, Inc.	D		1.36M	0.75		41.983B USD	3.49	50.53 USD	—	0.92%		
 OKE	ONEOK, Inc.	D		3.533M	1.04		39.753B USD	12.53	5.45 USD	+51.13%	5.60%		
 TRP	TC Energy Corporation	D		1.203M	0.44		39.416B USD	—	-0.06 USD	-102.67%	7.14%		
 KMI	Kinder Morgan, Inc.	D		11.79M	0.84		39.343B USD	16.19	1.09 USD	-1.03%	6.36%		
 MPLX	MPLX LP	D		2.213M	1.37		36.124B USD	10.35	3.49 USD	-7.73%	8.80%		

Industrial Service

Symbol 113		Volume	Rel Volume	Market cap	P/E	EPS dil TTM	EPS dil growth TTM YOY	Div yield % TTM
AEP	AEP American Electric Power Co. D	2.708M	0.94	41.881B USD	18.30	4.35 USD	-9.68%	4.23%
D	D Dominion Energy, Inc. D	6.509M	1.16	39.739B USD	24.26	1.96 USD	-29.51%	5.62%
EXC	EXC Exelon Corporation D	7.433M	1.06	39.031B USD	18.25	2.15 USD	-0.77%	3.67%
PCG	PCG Pacific Gas & Electric Co. D	13.306M	0.52	37.571B USD	20.07	0.88 USD	+4.39%	0.00%
CEG	CEG Constellation Energy Corp. D	2.627M	1.34	35.518B USD	21.30	5.22 USD	-	1.01%
XEL	XEL Xcel Energy Inc. D	4.344M	1.27	33.611B USD	19.28	3.16 USD	+3.12%	3.36%
ED	ED Consolidated Edison, Inc. D	1.911M	1.03	31.605B USD	13.57	6.75 USD	+41.57%	3.54%
PEG	PEG Public Service Enterprise G... D	2.835M	0.61	31.18B USD	11.15	5.61 USD	+311.89%	3.60%
CQP	CQP Cheniere Energy Partners, LP D	256.999K	1.07	28.224B USD	5.67	10.29 USD	-	7.13%
WEC	WEC WEC Energy Group, Inc. D	1.713M	0.91	26.519B USD	19.44	4.32 USD	-0.89%	3.71%
EIX	EIX Edison International D	2.276M	0.97	25.872B USD	21.02	3.21 USD	+70.10%	4.37%
AWK	AWK American Water Works Com... D	714.782K	0.71	25.575B USD	27.29	4.81 USD	-33.52%	2.11%
DTE	DTE DTE Energy Company D	2.139M	1.46	22.402B USD	17.98	6.04 USD	+4.52%	3.51%



Utilities

Non-Energy Minerals

Symbol			Volume	Rel Volume	↓ Market cap	P/E	EPS dil TTM	EPS dil growth TTM YoY	Div yield % TTM
171									
 BHP	BHP Group Limited	^{D DR}	2.537M	1.17	159.695B USD	12.29	5.08 USD	+16.46%	5.40%
 RIO	Rio Tinto Plc	^{D DR}	3.048M	1.14	119.514B USD	13.00	5.40 USD	-52.88%	5.71%
 VALE	VALE S.A.	^{D DR}	16.258M	0.89	63.587B USD	6.97	2.10 USD	-51.21%	7.75%
 SCCO	Southern Copper Corporation	^D	1.485M	1.31	58.331B USD	20.24	3.73 USD	+12.21%	5.30%
 FCX	Freeport-McMoRan, Inc.	^D	19.549M	1.76	54.706B USD	25.69	1.48 USD	-43.67%	0.79%
 NEM	Newmont Corporation	^D	9.036M	0.62	45.039B USD	—	-1.03 USD	-181.29%	4.09%
 CRH	CRH PLC	^D	2.888M	0.80	44.694B USD	16.35	3.97 USD	+112.24%	—
 NUE	Nucor Corporation	^D	928.537K	0.52	39.848B USD	8.22	19.72 USD	-38.02%	1.26%
 GOLD	Barrick Gold Corporation	^D	18.257M	1.00	29.483B USD	571.66	0.03 USD	-97.00%	2.38%
 MLM	Martin Marietta Materials, I...	^D	254.591K	0.83	29.012B USD	27.24	17.23 USD	+27.41%	0.60%
 VMC	Vulcan Materials Company (...)	^D	563.573K	0.86	28.705B USD	35.01	6.17 USD	+38.70%	0.80%



Plot comparing Adjusted Close Price



Log Return Correlation

	BCE	CQP	ET	PBR-A	VALE
BCE	1.000000	0.338494	0.328419	0.386260	0.375567
CQP	0.338494	1.000000	0.445391	0.322381	0.285876
ET	0.328419	0.445391	1.000000	0.368033	0.342215
PBR-A	0.386260	0.322381	0.368033	1.000000	0.592242
VALE	0.375567	0.285876	0.342215	0.592242	1.000000

Optimal Weights Using Sharpe Ratio

Sector	Company	Ticker	Div_yeild_%	Optimal_Weight	Amount_to_Invest_(\\$)
Energy Minerals	Petroleo Brasileiro S.A.-Petrobras	PBR-A	20	0.018714	1871.4
Communication	BCE, Inc.	BCE	6.92	0.299971	29997.1
Industrial Services	Energy Transfer LP	ET	9.16	0.084176	8417.6
Utilities	Cheniere Energy Partners, LP	CQP	7.17	0.581577	58157.7
Non-Energy Minerals	Vale S.A.	VALE	7.75	0.015562	1556.2
				Total = 1	Total = 100000

Stock Prices after 10 Years

Method: Monte Carlo Simulation

Sector	Company	Ticker	Current Stock Price	Stock Price after 10 years	Stock price Change	%Change in Stock Price
Energy Minerals	Petroleo Brasileiro S.A.- Petrobras	PBR-A	14.01	27.82	13.81	98.57244825
Communication	BCE, Inc.	BCE	40.61	48.09	7.48	18.41910859
Industrial Services	Energy Transfer LP	ET	13.33	15.59	2.26	16.95423856
Utilities	Cheniere Energy Partners, LP	CQP	59.3	104.46	45.16	76.15514334
Non-Energy Minerals	Vale S.A.	VALE	14.68	31.09	16.41	111.7847411

SWOT ANALYSIS

Company	Strengths	Weaknesses	Opportunity	Threat
Petroleo Brasileiro S.A.- Petrobras	<ul style="list-style-type: none">Significant Reserves and Production CapacityAdvanced Offshore Technology	<ul style="list-style-type: none">Political Influence and Corruption ScandalsOperational Risks	<ul style="list-style-type: none">Increasing global energy demandRenewable Energy and Diversification	<ul style="list-style-type: none">Threats from competitors, including those expanding into renewable energy.Fluctuating Oil Prices
BCE	<ul style="list-style-type: none">Research and Development (R&D)Broad Service PortfolioOperational Network	<ul style="list-style-type: none">Dependence on Specific MarketsOperational Complexity	<ul style="list-style-type: none">Contracts and AgreementsMobile 5G CommercializationGlobal Cloud Computing Market	<ul style="list-style-type: none">Technological ChangesIntense Competition
Cheniere Energy Partners, LP	<ul style="list-style-type: none">Established Market PositionStrategic Assets and Infrastructure	<ul style="list-style-type: none">Operational RisksDependence on Key Facilities	<ul style="list-style-type: none">Growing Global Demand for LNGExpansion of Export Capacities	<ul style="list-style-type: none">Regulatory and Environmental ChallengesCompetition and Technological Advancements
Energy Partners	<ul style="list-style-type: none">Extensive Pipeline NetworkDiversified PortfolioLeading energy company in the U.S.	<ul style="list-style-type: none">Environmental Concerns	<ul style="list-style-type: none">Expansion into Renewable EnergyGlobal Market Expansion	<ul style="list-style-type: none">Market VolatilityTechnological Disruption
Vale SA	<ul style="list-style-type: none">Global Leadership in Iron Ore ProductionDiversified Mining PortfolioAdvanced Logistics Network	<ul style="list-style-type: none">Environmental and Safety ConcernsRegulatory Challenges	<ul style="list-style-type: none">Growing Demand for Electric Vehicles (EVs)Expansion in Emerging Markets	<ul style="list-style-type: none">Intense Global CompetitionPolitical and Economic Instability in Key Markets



Thank you