

# ETF Based Pairs Trading Strategy with XOM and XLM

**Cointegration Strategy** 

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## Strategy Overview



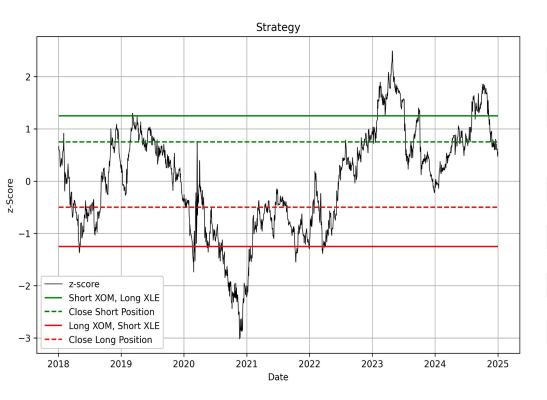
When **XOM** outperforms relative to **XLE**, we go short

When **XOM** underperforms relative to **XLE**, we go long

**SPY** is used to hedge the strategy

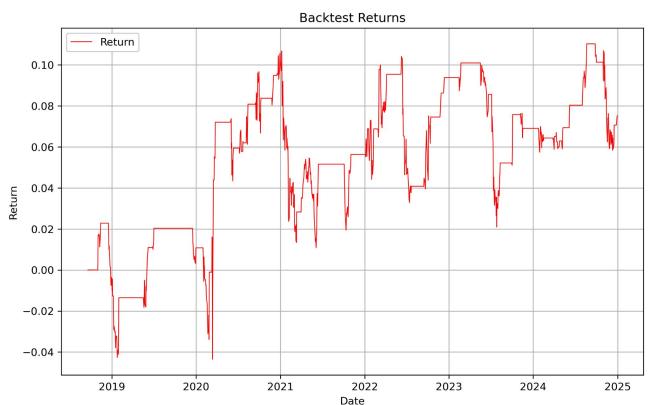
# Regression

#### XOM = 0.9068XLE - 0.0875SPY



	coef	std err		t P	> t	[0.02	5 0.975	5]
Intercept	0.0001	0.000	0.71	9 0.4	172	-0.00	0.00	0
XLE	0.9068	0.011	86.05	5 0.0	00	0.88	6 0.92	8
SPY	-0.0875	0.018	-4.92	7 0.0	00	-0.12	2 -0.05	3
OLS Regression Results								
Dep. Variable:		>	KOM	R	R-squared:		0.86	4
Model:			OLS Ac		dj. R-squared:		0.86	4
Method:		Least Squares		F	-sta	tistic:	5598	8.
	Date: Tu	ie, 23 Sep 2	025 <b>P</b>	rob (F-	stat	istic):	0.0	0
	Time:	23:44	4:45	Log-L	ikeli	hood:	6187	.9
No. Observa	tions:	1	1760			AIC:	-1.237e+0	4
Df Resi	duals:		1757			BIC:	-1.235e+0	4
Df N	lodel:		2					
Covariance	Туре:	nonro	bust					

### Results



**Cumulative Returns:** 7.52%

**Sharpe Ratio:** 0.17

Max Drawdown: 0.136