

STRATEGY & ECONOMIC RATIONALE

The investor is invested in stocks during FOMC meetings (going long S&P 500 ETF, fund, future, or CFD on a close one day before the meeting and closing position on close after the meeting). Otherwise, he is invested in cash during the remaining days. The strategy has very low exposure to the stock market (8 days during the average year); therefore, it can be very easily leverage d to gain very significant returns.

BUY	SELL
S&P 500 ETF, fund, future, or CFD on a close one day before the meeting and closing position on close after the meeting	The opposite

PARAMETER & VARIABLES

PARAMETER	VALUE	
MARKETS TRADED	Equity	
FINANCIAL INSTRUMENTS	CFDs, ETFs, funds, futures	
REGION	Global	
PERIOD OF REBALANCING	Daily	
NO. OF TRADED INSTRUMENTS	1	
WEIGHTING	Equal weighting	
LOOKBACK PERIODS	N/A	
LONG/SHORT	Long only	

ALGORITHM

```
from AlgorithmImports import *
from pandas.tseries.offsets import BDay
from datetime import datetime

class FederalOpenMarketCommitteeMeetingEffectinStocks(QCAlgorithm):

    def Initialize(self) -> None:
        self.SetStartDate(2000, 1, 1)
        self.SetCash(100000)

        self.market:Symbol = self.AddEquity("SPY", Resolution.Minute).Symbol

        self.fed_days_symbol:Symbol = self.AddData(FedDays, 'fed_days', Resolution.Daily,
TimeZones.NewYork).Symbol
        self.SetWarmUp(1, Resolution.Daily)
        FedDays.set_algo(self)

        self.recent_day:int = -1

    def OnData(self, data:Slice) -> None:
        if self.IsWarmingUp: return
```

```
if self.fed_days_symbol in data and data[self.fed_days_symbol]:
            self.Log(f"New FOMC meeting data arrived: {self.Time}; submitting an MOC
order...")
            # new fed day data arrived
            quantity:float = self.CalculateOrderQuantity(self.market, 1.)
            self.MarketOnCloseOrder(self.market, quantity)
            self.recent day = self.Time.day
        else:
            # other new minute resolution data arrived
            if self.Portfolio[self.market].Invested:
                if self.Time.day != self.recent_day:
                    self.recent_day = self.Time.day
                    self.Log(f"FOMC meeting day; submitting an MOC order to close opened
position...")
                    self.MarketOnCloseOrder(self.market, -
self.Portfolio[self.market].Quantity)
class FedDays(PythonData):
    algo = None
   @staticmethod
   def set algo(algo):
        FedDays.algo = algo
    def GetSource(self, config:SubscriptionDataConfig, date:datetime, isLiveMode:bool) ->
SubscriptionDataSource:
        if isLiveMode:
            # FedDays.algo.Log(f"Edited GetSource date {FedDays.algo.Time}")
SubscriptionDataSource("https://data.quantpedia.com/backtesting_data/economic/fed_days.jso
n", SubscriptionTransportMedium.RemoteFile, FileFormat.UnfoldingCollection)
        return
SubscriptionDataSource("https://data.quantpedia.com/backtesting_data/economic/fed_days.csv
", SubscriptionTransportMedium.RemoteFile)
    def Reader(self, config:SubscriptionDataConfig, line:str, date:datetime,
isLiveMode:bool) -> BaseData:
        if isLiveMode:
            try:
                # FedDays.algo.Log(f"Reader")
                objects = []
                data = json.loads(line)
                end_time = None
                for index, sample in enumerate(data):
                    custom_data = FedDays()
```

```
custom_data.Time = (datetime.strptime(str(sample["fed_date"]), "%Y-%m-
%d") - BDay(1)).replace(hour=9, minute=31)
                    # FedDays.algo.Log(f"{custom_data.Time}")
                    end time = custom data.Time
                    objects.append(custom_data)
                return BaseDataCollection(end_time, config.Symbol, objects)
            except ValueError:
                # FedDays.algo.Log(f"Reader Error")
                return None
        else:
            if not (line.strip() and line[0].isdigit()):
                return None
            custom = FedDays()
            custom.Symbol = config.Symbol
            custom.Time = (datetime.strptime(line, "%Y-%m-%d") - BDay(1)).replace(hour=9,
minute=31)
            custom.Value = 0.
            custom["fed_date_str"] = line
            return custom
```

BACKTESTING PERFORMANCE



Fig 1. Overall Performance

PSR	0.051%	Sharpe Ratio	0.462
Total Trades	368	Average Win	1.06%
Average Loss	-0.74%	Compounding Annual Return	1.975%
Drawdown	9.500%	Expectancy	0.343
Net Profit	57.478%	Loss Rate	45%
Win Rate	55%	Profit-Loss Ratio	1.42
Alpha	0.012	Beta	0.035
Annual Standard Deviation	0.03	Annual Variance	0.001
Information Ratio	-0.265	Tracking Error	0.159
Treynor Ratio	0.398	Total Fees	\$1925.73
Estimated Strategy Capacity	\$310000000.00	Lowest Capacity Asset	SPY R735QTJ8XC9X

Fig 2. Performance Metrics

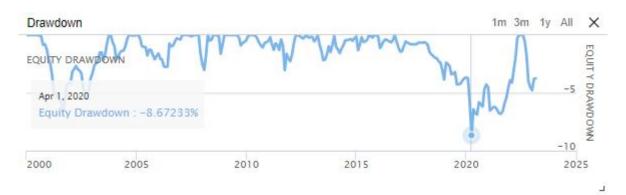


Fig 3. Drawdown