
MODULE 2 CHALLENGE

2017 / 2018

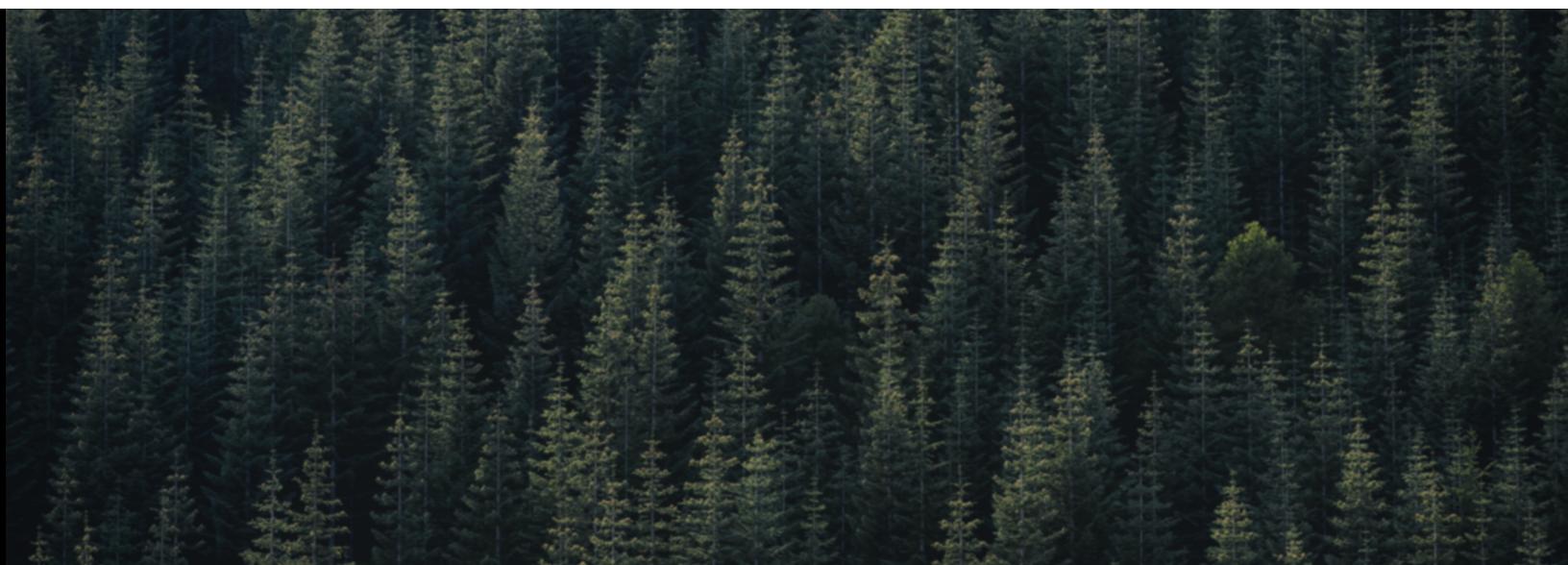
GREEN
ENERGY
STOCK
ANALYSIS

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OVERVIEW OF PROJECT

Explain the purpose of the Analysis

Steve's parents are interested in investing in green energy stocks and have their minds set on DQ. Steve worries about putting all his parents' eggs in one basket. Therefore, he gathered data from other green energy stocks over the years to compare highs, lows and volume. Steve wants to analyze stock data overtime to help his parents make the best investments for their portfolio. The purpose of this analyses is to refactor the code, so it is useful for very large data sets, not just a dozen stocks. By refactoring the code Steve will be able to compare unlimited stock data at a fast speed.



RESULTS

Using images and examples of your code, compare the stock performance between 2017 and 2018, as well as the execution times of the original script and the refactored script.

As you can see, in the green energy stock market was doing better in 2017 than 2018. Steve's parents DQ stock went up almost 200% in 2017 and then plummeted to -62.6% in 2018. The only two stocks that remained relatively healthy throughout 2017-2018 are ENPH and RUN.

- 62.6%
DQ 2018

"DQ" THE STOCK STEVES PARENTS
WANTED TO INVEST THEIR MONEY IN

All Stocks (2017)		
ticker	Total Daily Volume	Return
AY	136,070,900	8.9%
CSIQ	310,592,800	33.1%
DQ	35,796,200	199.4%
ENPH	221,772,100	129.5%
FSLR	684,181,400	101.3%
HASI	80,949,300	25.8%
JKS	191,632,200	53.9%
RUN	267,681,300	5.5%
SEDG	206,885,200	184.5%
SPWR	782,187,000	23.1%
TERP	139,402,800	-7.2%
VSLR	109,487,900	50.0%

All Stocks (2018)		
ticker	Total Daily Volume	Return
AY	83,079,900	-7.3%
CSIQ	200,879,900	-16.3%
DQ	107,873,900	-62.6%
ENPH	607,473,500	81.9%
FSLR	478,113,900	-39.7%
HASI	104,340,600	-20.7%
JKS	158,309,000	-60.5%
RUN	502,757,100	84.0%
SEDG	237,212,300	-7.8%
SPWR	538,024,300	-44.6%
TERP	151,434,700	-5.0%
VSLR	136,539,100	-3.5%

SUMMARY

In a summary statement, address the following questions.

What are the advantages or disadvantages of refactoring code?

Advantages to refactoring is it is easier to understand, therefore when coming back to edit the code or sending it to someone it will be straight forward and user-friendly. Refactoring also helps find bugs and program faster. Overall, refactoring leads to better quality, faster code. Disadvantages I ran into was retesting the code and running into several bugs.

'3a) Increase volume for current ticker

```
tickerVolumes(tickerIndex) = tickerVolumes(tickerIndex) + Cells(i, 8).Value
```

How do these pros and cons apply to refactoring the original VBA script?

Personally, I ran into programming errors due to a glitch in Mac computers while using excel. Several times I rewrote this line of code and eventually I moved past this glitch by copying and pasting it in Notepad and transferring it back over into Visual Basics. Aside from that refactoring code is a faster code.

