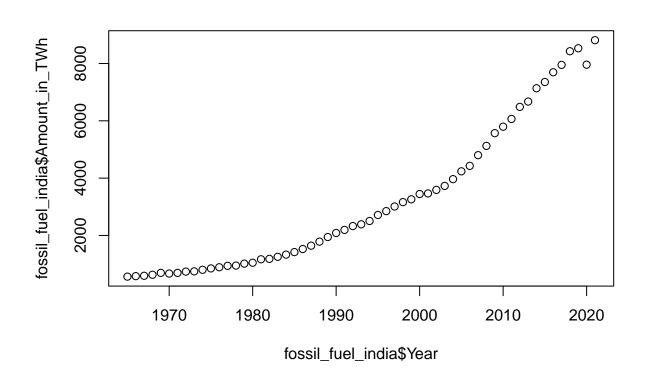
Untitled

Shouvik

2022-12-08

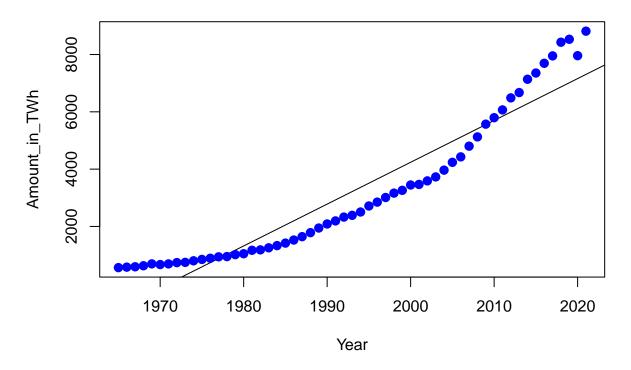
```
fossil_fuel <- read_csv("fossil-fuel-primary-energy.csv")</pre>
## New names:
## Rows: 5187 Columns: 5
## -- Column specification
## ----- Delimiter: "," chr
## (2): Entity, Code dbl (3): ...1, Year, Fossil fuels (TWh)
## i Use 'spec()' to retrieve the full column specification for this data. i
## Specify the column types or set 'show_col_types = FALSE' to quiet this message.
## * '' -> '...1'
colnames(fossil_fuel) <- c('ID','Country','Code','Year','Amount_in_TWh')</pre>
fossil_fuel_india <- fossil_fuel %>% filter(Country %in% c("India")) %>% select(,c('Year','Amount_in_TW
head(fossil_fuel_india)
## # A tibble: 6 x 2
##
     Year Amount_in_TWh
    <dbl>
                  <dbl>
## 1 1965
                   563.
## 2 1966
                   579.
## 3 1967
                   592.
## 4 1968
                   628.
## 5 1969
                   694.
## 6 1970
                   670.
plot(fossil_fuel_india$Year,fossil_fuel_india$Amount_in_TWh)
```



```
x <- fossil_fuel_india$Amount_in_TWh
y <- fossil_fuel_india$Year
relation <- lm(y~x)

# Plot the chart.
plot(y,x,col = "blue",main = "Amount_in_Twh & year Regression",
abline(lm(x~y)),cex = 1.3,pch = 16,xlab = "Year",ylab = "Amount_in_Twh")</pre>
```

Amount_in_Twh & year Regression



summary(relation)

```
##
## Call:
## lm(formula = y \sim x)
## Residuals:
       Min
                1Q Median
                                ЗQ
                                       Max
## -11.636 -4.102
                     1.107
                             4.490
                                     6.849
##
## Coefficients:
                Estimate Std. Error t value Pr(>|t|)
## (Intercept) 1.973e+03 1.133e+00 1740.88
                                              <2e-16 ***
               6.165e-03 2.768e-04
                                              <2e-16 ***
## x
                                      22.27
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 5.292 on 55 degrees of freedom
## Multiple R-squared: 0.9002, Adjusted R-squared: 0.8983
## F-statistic: 495.9 on 1 and 55 DF, p-value: < 2.2e-16
```