LIC

```r
# 3PC Model - Simuation: Temperature

Ei <- 0.01399697  # baseload (non-weather sensitive usage)
CS <- 0.0011583  # cooling slope (from lm)
TcpC <- 53.48  # cooling CP (from CP model)

tot.e <- list()
t.range <- seq(0, 100, 5)

for(i in t.range) {
  temp <- ifelse(i < TcpC, 0, (i - TcpC))
  tot.e <- rbind(tot.e, (Ei + (CS * (temp))))

}

df.e <- cbind(data.frame(t.range, tot.e))
names(df.e) <- c('Temp', 'Total Energy')

# cat("Expected kWh at Toa:", E)

print(df.e)
```

```
##    Temp Total Energy
## 1     0   0.01399697
## 2     5   0.01399697
## 3    10   0.01399697
## 4    15   0.01399697
## 5    20   0.01399697
## 6    25   0.01399697
## 7    30   0.01399697
## 8    35   0.01399697
## 9    40   0.01399697
## 10   45   0.01399697
## 11   50   0.01399697
## 12   55   0.01575759
## 13   60   0.02154909
## 14   65   0.02734059
## 15   70   0.03313209
## 16   75   0.03892359
## 17   80   0.04471509
## 18   85   0.05050659
## 19   90   0.05629809
## 20   95   0.06208959
## 21  100   0.06788109
```