[**https://monitoringpublic.solaredge.com/solaredge-web/p/site/public?name=GSE-ALLENTOWN-21&locale=en\_US#/dashboard**](https://monitoringpublic.solaredge.com/solaredge-web/p/site/public?name=GSE-ALLENTOWN-21&locale=en_US#/dashboard) **(Peak Power)**

[**https://www.philadelphia.climatemps.com/sunlight.php**](https://www.philadelphia.climatemps.com/sunlight.php) **(Hours of sunlight)**

#Get Estimates of Solar Data Production

#Loading Data and Calculating Distribution Parameters

setwd("~/Desktop/Math 301/Solar Panel Project")

#January Production

solarJan = read.csv("JanProduction.csv", header=T)

JanProd = solarJan$System.Production..Wh.

meanJanP = mean(JanProd)

sdJanP = sd(JanProd)

#February

solarJan = read.csv("FebProduction.csv", header=T)

FebProd = solarJan$System.Production..Wh.

meanFebP = mean(FebProd)

sdFebP = sd(FebProd)

#March

solarMar = read.csv("MarProduction.csv", header=T)

MarProd = solarMar$System.Production..Wh.

meanMarP = mean(MarProd)

sdMarP = sd(MarProd)

#April

solarApr = read.csv("AprProduction.csv", header=T)

AprProd = solarApr$System.Production..Wh.

meanAprP = mean(AprProd)

sdAprP = sd(AprProd)

#May

solarMay = read.csv("MayProduction.csv", header=T)

MayProd = solarMay$System.Production..Wh.

meanMayP = mean(MayProd)

sdMayP = sd(MayProd)

#June

solarJun = read.csv("JunProduction.csv", header=T)

JunProd = solarJun$System.Production..Wh.

meanJunP = mean(JunProd)

sdJunP = sd(JunProd)

#July

solarJul = read.csv("JulProduction.csv", header=T)

JulProd = solarJul$System.Production..Wh.

meanJulP = mean(JulProd)

sdJulP = sd(JulProd)

#August

solarAug = read.csv("AugProduction.csv", header=T)

AugProd = solarAug$System.Production..Wh.

meanAugP = mean(AugProd)

sdAugP = sd(AugProd)

#September

solarSep = read.csv("SepProduction.csv", header=T)

SepProd = solarSep$System.Production..Wh.

meanSepP = mean(SepProd)

sdSepP = sd(SepProd)

#October

solarOct = read.csv("OctProduction.csv", header=T)

OctProd = solarOct$System.Production..Wh.

meanOctP = mean(OctProd)

sdOctP = sd(OctProd)

#November

solarNov = read.csv("NovProduction.csv", header=T)

NovProd = solarNov$System.Production..Wh.

meanNovP = mean(NovProd)

sdNovP = sd(NovProd)

#December

solarDec = read.csv("DecProduction.csv", header=T)

DecProd = solarDec$System.Production..Wh.

meanDecP = mean(DecProd)

sdDecP = sd(DecProd)