dfFinalPrice <- read\_excel(paste0(dPath, '20221120\_FinalEnergyPrices.xlsx'))

dfOTA2202FinalPrice <- dfFinalPrice[dfFinalPrice$PointOfConnection == "OTA2202",]

colnames(dfOTA2202FinalPrice) <- c("TradingDate", "TradingPeriod",

"PointOfConnectionOTA2202","DollarsPerMegawattHourOTA2202")

dfOffers1120 <- read\_excel(paste0(dPath,"20221120\_Offers.xlsx"),

dfOTA2202Joined <- left\_join(dfOffers1120, dfOTA2202FinalPrice)

dfOTA2202Marginal <- dfOTA2202Joined[dfOTA2202Joined$DollarsPerMegawattHour <=

dfOTA2202Joined$DollarsPerMegawattHourOTA2202,]

dfOTA2202Marginal <- dfOTA2202Marginal[dfOTA2202Marginal$DollarsPerMegawattHour > 0,]

#closest<-function(xv,sv){

# xv[which((xv-sv)==min(abs(xv-sv)))] }

#apply{[dfOTA2202Marginal, c("TradingPeriod" == (1:48), 2),

min[c("DollarsPerMegawattHourOTA2202" - "DollarsPerMegawatthour")]}

#apply[(dfOTA2202Marginal, c("TradingPeriod" == 1, 2),

min(c("DollarsPerMegawattHourOTA2202" - "DollarsPerMegawatthour"))]

min(dfOTA2202Marginal, apply(dfOTA2202Marginal, ("TradingPeriod" == 1, 2) ,

c("DollarsPerMegawattHourOTA2202" - "DollarsPerMegawatthour")))