

Option Explicit

```
Public Const C_ERR_NO_ERROR = 0&
Public Const C_ERR_SUBSCRIPT_OUT_OF_RANGE = 9&
Public Const C_ERR_ARRAY_IS_FIXED_OR_LOCKED = 10&
Public Const DAILY = 1
Public Const MONTHLY = 2
```

```
Public Function IsArrayEmpty(Arr As Variant) As Boolean
```

```
.....
' IsArrayEmpty
' This function tests whether the array is empty (unallocated). Returns TRUE or FALSE.
'
' The VBA IsArray function indicates whether a variable is an array, but it does not
' distinguish between allocated and unallocated arrays. It will return TRUE for both
' allocated and unallocated arrays. This function tests whether the array has actually
' been allocated.
'
' This function is really the reverse of IsArrayAllocated.
.....
```

```
Dim LB As Long
Dim UB As Long
```

```
Err.Clear
On Error Resume Next
If IsArray(Arr) = False Then
    ' we weren't passed an array, return True
    IsArrayEmpty = True
End If
```

```
' Attempt to get the UBound of the array. If the array is
' unallocated, an error will occur.
```

```
UB = UBound(Arr, 1)
If (Err.Number <> 0) Then
    IsArrayEmpty = True
Else
```

```
.....
' On rare occasion, under circumstances I
' cannot reliably replicate, Err.Number
' will be 0 for an unallocated, empty array.
' On these occasions, LBound is 0 and
' UBound is -1.
' To accommodate the weird behavior, test to
' see if LB > UB. If so, the array is not
' allocated.
.....
```

```
Err.Clear
LB = LBound(Arr)
If LB > UB Then
    IsArrayEmpty = True
Else
    IsArrayEmpty = False
End If
End If
```

```
End Function
```

```
Public Function AreDataTypesCompatible(DestVar As Variant, SourceVar As Variant) As Boolean
```

```
.....
' AreDataTypesCompatible
' This function determines if SourceVar is compatible with DestVar. If the two
' data types are the same, they are compatible. If the value of SourceVar can
' be stored in DestVar with no loss of precision or an overflow, they are compatible.
' For example, if DestVar is a Long and SourceVar is an Integer, they are compatible
' because an integer can be stored in a Long with no loss of information. If DestVar
' is a Long and SourceVar is a Double, they are not compatible because information
' will be lost converting from a Double to a Long (the decimal portion will be lost).
.....
```

```
Dim SVType As VbVarType
Dim DVType As VbVarType
```

```
.....
```

```

' Set the default return type.
.....
AreDataTypesCompatible = False
.....
' If DestVar is an array, get the
' type of array. If it is an array
' its VarType is vbArray + VarType(element)
' so we subtract vbArray to get then
' data type of the array. E.g.,
' the VarType of an array of Longs
' is 8195 = vbArray + vbLong,
' 8195 - vbArray = vbLong (=3).
.....
If IsArray(DestVar) = True Then
    DVType = VarType(DestVar) - vbArray
Else
    DVType = VarType(DestVar)
End If
.....
' If SourceVar is an array, get the
' type of array.
.....
If IsArray(SourceVar) = True Then
    SVType = VarType(SourceVar) - vbArray
Else
    SVType = VarType(SourceVar)
End If
.....
' If one variable is an array and
' the other is not an array, they
' are incompatible.
.....
If ((IsArray(DestVar) = True) And (IsArray(SourceVar) = False) Or
    (IsArray(DestVar) = False) And (IsArray(SourceVar) = True)) Then
    Exit Function
End If
.....
' Test the data type of DestVar
' and return a result if SourceVar
' is compatible with that type.
.....
If SVType = DVType Then
    .....
    ' The the variable types are the
    ' same, they are compatible.
    .....
    AreDataTypesCompatible = True
    Exit Function
Else
    .....
    ' If the data types are not the same,
    ' determine whether they are compatible.
    .....
    Select Case DVType
        Case vbInteger
            Select Case SVType
                Case vbInteger
                    AreDataTypesCompatible = True
                    Exit Function
                Case Else
                    AreDataTypesCompatible = False
                    Exit Function
            End Select
        Case vbLong
            Select Case SVType
                Case vbInteger, vbLong
                    AreDataTypesCompatible = True
                    Exit Function
            End Select
    End Select

```

```
        Case Else
            AreDataTypesCompatible = False
            Exit Function
    End Select
Case vbSingle
    Select Case SVType
        Case vbInteger, vbLong, vbSingle
            AreDataTypesCompatible = True
            Exit Function
        Case Else
            AreDataTypesCompatible = False
            Exit Function
    End Select
Case vbDouble
    Select Case SVType
        Case vbInteger, vbLong, vbSingle, vbDouble
            AreDataTypesCompatible = True
            Exit Function
        Case Else
            AreDataTypesCompatible = False
            Exit Function
    End Select
Case vbString
    Select Case SVType
        Case vbString
            AreDataTypesCompatible = True
            Exit Function
        Case Else
            AreDataTypesCompatible = False
            Exit Function
    End Select
Case vbObject
    Select Case SVType
        Case vbObject
            AreDataTypesCompatible = True
            Exit Function
        Case Else
            AreDataTypesCompatible = False
            Exit Function
    End Select
Case vbBoolean
    Select Case SVType
        Case vbBoolean, vbInteger
            AreDataTypesCompatible = True
            Exit Function
        Case Else
            AreDataTypesCompatible = False
            Exit Function
    End Select
Case vbByte
    Select Case SVType
        Case vbByte
            AreDataTypesCompatible = True
            Exit Function
        Case Else
            AreDataTypesCompatible = False
            Exit Function
    End Select
Case vbCurrency
    Select Case SVType
        Case vbInteger, vbLong, vbSingle, vbDouble
            AreDataTypesCompatible = True
            Exit Function
        Case Else
            AreDataTypesCompatible = False
            Exit Function
    End Select
Case vbDecimal
    Select Case SVType
        Case vbInteger, vbLong, vbSingle, vbDouble
            AreDataTypesCompatible = True
            Exit Function
        Case Else
```

```

        AreDataTypesCompatible = False
        Exit Function
    End Select
Case vbDate
    Select Case SVType
        Case vbLong, vbSingle, vbDouble
            AreDataTypesCompatible = True
            Exit Function
        Case Else
            AreDataTypesCompatible = False
            Exit Function
    End Select

Case vbEmpty
    Select Case SVType
        Case vbVariant
            AreDataTypesCompatible = True
            Exit Function
        Case Else
            AreDataTypesCompatible = False
            Exit Function
    End Select
Case vbError
    AreDataTypesCompatible = False
    Exit Function
Case vbNull
    AreDataTypesCompatible = False
    Exit Function
Case vbObject
    Select Case SVType
        Case vbObject
            AreDataTypesCompatible = True
            Exit Function
        Case Else
            AreDataTypesCompatible = False
            Exit Function
    End Select
Case vbVariant
    AreDataTypesCompatible = True
    Exit Function

End Select
End If
End Function

Public Function IsArrayAllocated(Arr As Variant) As Boolean
.....
' IsArrayAllocated
' Returns TRUE if the array is allocated (either a static array or a dynamic array that has been
' sized with Redim) or FALSE if the array is not allocated (a dynamic that has not yet
' been sized with Redim, or a dynamic array that has been Erased). Static arrays are always
' allocated.
'
' The VBA IsArray function indicates whether a variable is an array, but it does not
' distinguish between allocated and unallocated arrays. It will return TRUE for both
' allocated and unallocated arrays. This function tests whether the array has actually
' been allocated.
'
' This function is just the reverse of IsArrayEmpty.
.....

Dim N As Long
On Error Resume Next

' if Arr is not an array, return FALSE and get out.
If IsArray(Arr) = False Then
    IsArrayAllocated = False
    Exit Function
End If

' Attempt to get the UBound of the array. If the array has not been allocated,
' an error will occur. Test Err.Number to see if an error occurred.
N = UBound(Arr, 1)

```

```

If (Err.Number = 0) Then
    ' Under some circumstances, if an array
    ' is not allocated, Err.Number will be
    ' 0. To accomodate this case, we test
    ' whether LBound <= Ubound. If this
    ' is True, the array is allocated. Otherwise,
    ' the array is not allocated.
    If LBound(Arr) <= UBound(Arr) Then
        ' no error. array has been allocated.
        IsArrayAllocated = True
    Else
        IsArrayAllocated = False
    End If
Else
    ' error. unallocated array
    IsArrayAllocated = False
End If

End Function

Public Function IsArrayDynamic(ByRef Arr As Variant) As Boolean
    ' IsArrayDynamic
    ' This function returns TRUE or FALSE indicating whether Arr is a dynamic array.
    ' Note that if you attempt to ReDim a static array in the same procedure in which it is
    ' declared, you'll get a compiler error and your code won't run at all.

Dim LUBound As Long

' If we weren't passed an array, get out now with a FALSE result
If IsArray(Arr) = False Then
    IsArrayDynamic = False
    Exit Function
End If

' If the array is empty, it hasn't been allocated yet, so we know
' it must be a dynamic array.
If IsArrayEmpty(Arr:=Arr) = True Then
    IsArrayDynamic = True
    Exit Function
End If

' Save the UBound of Arr.
' This value will be used to restore the original UBound if Arr
' is a single-dimensional dynamic array. Unused if Arr is multi-dimensional,
' or if Arr is a static array.
LUBound = UBound(Arr)

On Error Resume Next
Err.Clear

' Attempt to increase the UBound of Arr and test the value of Err.Number.
' If Arr is a static array, either single- or multi-dimensional, we'll get a
' C_ERR_ARRAY_IS_FIXED_OR_LOCKED error. In this case, return FALSE.
' If Arr is a single-dimensional dynamic array, we'll get C_ERR_NO_ERROR error.
' If Arr is a multi-dimensional dynamic array, we'll get a
' C_ERR_SUBSCRIPT_OUT_OF_RANGE error.
' For either C_NO_ERROR or C_ERR_SUBSCRIPT_OUT_OF_RANGE, return TRUE.
' For C_ERR_ARRAY_IS_FIXED_OR_LOCKED, return FALSE.

ReDim Preserve Arr(LBound(Arr) To LUBound + 1)

Select Case Err.Number
    Case C_ERR_NO_ERROR
        ' We successfully increased the UBound of Arr.
        ' Do a ReDim Preserve to restore the original UBound.
        ReDim Preserve Arr(LBound(Arr) To LUBound)

```

```

        IsArrayDynamic = True
    Case C_ERR_SUBSCRIPT_OUT_OF_RANGE
        ' Arr is a multi-dimensional dynamic array.
        ' Return True.
        IsArrayDynamic = True
    Case C_ERR_ARRAY_IS_FIXED_OR_LOCKED
        ' Arr is a static single- or multi-dimensional array.
        ' Return False
        IsArrayDynamic = False
    Case Else
        ' We should never get here.
        ' Some unexpected error occurred. Be safe and return False.
        IsArrayDynamic = False
End Select

End Function

```

```
Public Function NumberOfArrayDimensions(Arr As Variant) As Integer
```

```

.....
' NumberOfArrayDimensions
' This function returns the number of dimensions of an array. An unallocated dynamic array
' has 0 dimensions. This condition can also be tested with IsArrayEmpty.
.....

```

```

Dim Ndx As Integer
Dim Res As Integer
On Error Resume Next
' Loop, increasing the dimension index Ndx, until an error occurs.
' An error will occur when Ndx exceeds the number of dimension
' in the array. Return Ndx - 1.

```

```

Do
    Ndx = Ndx + 1
    Res = UBound(Arr, Ndx)
Loop Until Err.Number <> 0

```

```
NumberOfArrayDimensions = Ndx - 1
```

```
End Function
```

```
Public Function mmConcatenateArrays(ResultArray As Variant, ArrayToAppend As Variant, _
    Optional NoCompatibilityCheck As Boolean = False) As Boolean
```

```

.....
' mmConcatenateArrays
' This function appends ArrayToAppend to the end of ResultArray, increasing the size of ResultArray
' as needed. ResultArray must be a dynamic array, but it need not be allocated. ArrayToAppend
' may be either static or dynamic, and if dynamic it may be unallocated. If ArrayToAppend is
' unallocated, ResultArray is left unchanged.
,

```

```

' The data types of ResultArray and ArrayToAppend must be either the same data type or
' compatible numeric types. A compatible numeric type is a type that will not cause a loss of
' precision or cause an overflow. For example, ReturnArray may be Longs, and ArrayToAppend may
' by Longs or Integers, but not Single or Doubles because information might be lost when
' converting from Double to Long (the decimal portion would be lost). To skip the compatibility
' check and allow any variable type in ResultArray and ArrayToAppend, set the NoCompatibilityCheck
' parameter to True. If you do this, be aware that you may lose precision and you may will
' get an overflow error which will cause a result of 0 in that element of ResultArra.
,

```

```

' Both ResultArray and ArrayToAppend must be one-dimensional arrays.
,
.....

```

```

Dim VTypeResult As VbVarType
Dim Ndx As Long
Dim Res As Long
Dim NumElementsToAdd As Long
Dim AppendNdx As Long
Dim VTypeAppend As VbVarType
Dim ResultLB As Long
Dim ResultUB As Long
Dim ResultWasAllocated As Boolean

```

```

.....
' Set the default result.

```

```
.....
mmConcatenateArrays = False
.....
' Ensure ResultArray is an array.
.....
If IsArray(ResultArray) = False Then
    Exit Function
End If
.....
' Ensure ArrayToAppend is an array.
.....
If IsArray(ArrayToAppend) = False Then
    Exit Function
End If
.....
' Ensure both arrays are single
' dimensional.
.....
If NumberOfArrayDimensions(ResultArray) > 1 Then
    Exit Function
End If
If NumberOfArrayDimensions(ArrayToAppend) > 1 Then
    Exit Function
End If
.....
' Ensure ResultArray is dynamic.
.....
If IsArrayDynamic(Arr:=ResultArray) = False Then
    Exit Function
End If
.....
' Ensure ArrayToAppend is allocated.
' If ArrayToAppend is not allocated,
' we have nothing to append, so
' exit with a True result.
.....
If IsArrayAllocated(Arr:=ArrayToAppend) = False Then
    mmConcatenateArrays = True
    Exit Function
End If
.....
If NoCompatabilityCheck = False Then
    .....
    ' Ensure the array are compatible
    ' data types.
    .....
    If AreDataTypesCompatible(DestVar:=ResultArray, SourceVar:=ArrayToAppend) = False Then
        .....
        ' The arrays are not compatible data types.
        .....
        Exit Function
    End If
    .....
    ' If one array is an array of
    ' objects, ensure the other contains
    ' all objects (or Nothing)
    .....
    If VarType(ResultArray) - vbArray = vbObject Then
        If IsArrayAllocated(ArrayToAppend) = True Then
            For Ndx = LBound(ArrayToAppend) To UBound(ArrayToAppend)
                If IsObject(ArrayToAppend(Ndx)) = False Then
                    Exit Function
                End If
            Next Ndx
        End If
    End If
End If
End If
```

```

' Get the number of elements in
' ArrayToAppend
' ..
NumElementsToAdd = UBound(ArrayToAppend) - LBound(ArrayToAppend) + 1
' ..
' Get the bounds for resizing the
' ResultArray. If ResultArray is allocated
' use the LBound and UBound+1. If
' ResultArray is not allocated, use
' the LBound of ArrayToAppend for both
' the LBound and UBound of ResultArray.
' ..
If IsArrayAllocated(Arr:=ResultArray) = True Then
    ResultLB = LBound(ResultArray)
    ResultUB = UBound(ResultArray)
    ResultWasAllocated = True
    ReDim Preserve ResultArray(ResultLB To ResultUB + NumElementsToAdd)
Else
    ResultUB = UBound(ArrayToAppend)
    ResultWasAllocated = False
    ReDim ResultArray(LBound(ArrayToAppend) To UBound(ArrayToAppend))
End If

' Copy the data from ArrayToAppend to
' ResultArray.
' ..
If ResultWasAllocated = True Then
    ' ..
    ' If ResultArray was allocated, we
    ' have to put the data from ArrayToAppend
    ' at the end of the ResultArray.
    ' ..
    AppendNdx = LBound(ArrayToAppend)
    For Ndx = ResultUB + 1 To UBound(ResultArray)
        If IsObject(ArrayToAppend(AppendNdx)) = True Then
            Set ResultArray(Ndx) = ArrayToAppend(AppendNdx)
        Else
            ResultArray(Ndx) = ArrayToAppend(AppendNdx)
        End If
        AppendNdx = AppendNdx + 1
        If AppendNdx > UBound(ArrayToAppend) Then
            Exit For
        End If
    Next Ndx
Else
    ' ..
    ' If ResultArray was not allocated, we simply
    ' copy element by element from ArrayToAppend
    ' to ResultArray.
    ' ..
    For Ndx = LBound(ResultArray) To UBound(ResultArray)
        If IsObject(ArrayToAppend(Ndx)) = True Then
            Set ResultArray(Ndx) = ArrayToAppend(Ndx)
        Else
            ResultArray(Ndx) = ArrayToAppend(Ndx)
        End If
    Next Ndx

End If
' ..
' Success. Return True.
' ..
mmConcatenateArrays = True

End Function

Private Function mmIsInArray(valToBeFound As Variant, Arr As Variant) As Boolean
    'DEVELOPER: Ryan Wells (wellsr.com)
    'DESCRIPTION: Function to check if a value is in an array of values

```



```
'INPUT: Pass the function a value to search for and an array of values of any data type.
'OUTPUT: True if is in array, false otherwise
Dim element As Variant
```

```
On Error GoTo IsInArrayError: 'array is empty
```

```
For Each element In Arr
```

```
    'Debug.Print DateDiff("d", element, valToBeFound), valToBeFound, element
    If DateDiff("d", element, valToBeFound) = 0 Then
```

```
        mmIsInArray = True
```

```
        Exit Function
```

```
    End If
```

```
Next element
```

```
Exit Function
```

```
IsInArrayError:
```

```
On Error GoTo 0
```

```
mmIsInArray = False
```

```
End Function
```

```
Function mm_GetNGasData()
```

```
Dim BegDate As String
```

```
Dim EndDate As String
```

```
Dim DCSstring As String
```

```
Dim FromDCSPage As String
```

```
Dim ToPage As String
```

```
Dim PasteInitRow As Single 'Integer
```

```
Dim PasteInitCol As Integer
```

```
Dim PasteRowStep As Integer
```

```
Dim PasteColStep As Integer
```

```
Dim MonthStamp As String
```

```
Dim Mode As Integer
```

```
'BegDate = "2/13/2013"
```

```
'BegDate = "12/10/2008"
```

```
'BegDate = "9/29/2003"
```

```
'BegDate = "8/17/2006"
```

```
'BegDate = "6/25/2007"
```

```
'BegDate = "10/20/2008"
```

```
'EndDate = "12/31/2013"
```

```
ToPage = "pastedata.xlsx"
```

```
'ToPage = "_targetsheets.xlsx"
```

```
'PasteInitRow = 1034
```

```
'PasteInitRow = 25802
```

```
'PasteInitRow = 2 '9/29/2003
```

```
'PasteInitRow = 25298 '8/17/2006
```

```
'PasteInitRow = 2 '6/25/2007
```

```
'PasteInitRow = 11570 '10/20/2008
```

```
PasteInitRow = 4
```

```
PasteRowStep = 24
```

```
PasteInitCol = 2
```

```
PasteColStep = 0
```

```
'BegDate = "1/1/2018"
```

```
'EndDate = "7/14/2018"
```

```
PasteInitCol = 1
```

```
PasteInitRow = 240 '4 '5954
```

```
'BegDate = "8/31/2018"
```

```
BegDate = "1/31/2019"
EndDate = "10/31/2022"
```

```
' Monthly Mode calculates the last day of the month and just opens that spreadsheet skipping days
in between.
```

```
Mode = MONTHLY
```

```
MonthStamp = "B2"
```

```
' -----
' Chilled Water PRODUCTION
' -----
```

```
' Gas Natural Gas
```

```
PasteInitCol = 2
```

```
'mGetDCSDaily BegDate, EndDate, "3.1.2", "A12:G35", ToPage, PasteInitRow, PasteInitCol, PasteRowSt
ep, PasteColStep, 0, MonthStamp
```

```
' Steam Production
```

```
'PasteInitCol = 3
```

```
'mGetDCSDaily BegDate, EndDate, "3.3.0", "A12:I35", ToPage, PasteInitRow, PasteInitCol, PasteRowSt
ep, PasteColStep, 0, MonthStamp
```

```
' Power Generation
```

```
'PasteInitCol = 3
```

```
'mGetDCSDaily BegDate, EndDate, "3.2.0", "A12:Q35", ToPage, PasteInitRow, PasteInitCol, PasteRowSt
ep, PasteColStep, 0, MonthStamp
```

```
' HRSG1
```

```
' GET APPROACH STEAM PRODUCTION
```

```
'mGetDCSDaily BegDate, EndDate, "1.0.0", "F13:F36", ToPage, PasteInitRow, PasteInitCol, PasteRowSt
ep, PasteColStep, 0
```

```
' Natural Gas Monthly
```

```
mGetDCSMonthly BegDate, EndDate, "3.1.0", "B72:H72", ToPage, PasteInitRow, PasteInitCol, 1, 0, 1
```

```
End Function
```

```
Function mm_GetElecHourlyDCS()
```

```
Dim BegDate As String
```

```
Dim EndDate As String
```

```
Dim DCSstring As String
```

```
Dim FromDCSPage As String
```

```
Dim ToPage As String
```

```
Dim PasteInitRow As Single 'Integer
```

```
Dim PasteInitCol As Integer
```

```
Dim PasteRowStep As Integer
```

```
Dim PasteColStep As Integer
```

```
Dim MonthStamp As String
```

```
'BegDate = "2/13/2013"
```

```
'BegDate = "12/10/2008"
```

```
'BegDate = "9/29/2003"
```

```
'BegDate = "8/17/2006"
```

```
'BegDate = "6/25/2007"
```

```
'BegDate = "10/20/2008"
```

```
'EndDate = "12/31/2013"
```

```
'ToPage = "summaryreport_demand_elect.xlsx"
```

```
'ToPage = "dashboard_campus_demand_elect 20190805.xlsx"
```

```
'ToPage = "unidash_elec 20200513.xlsx"
```

```
'ToPage = "_pastedata 20221225.xlsx"
```

```
ToPage = "_main prod elec hourly 3.2.0 20221007.xlsx"
```

```
'PasteInitRow = 1034
```

```
'PasteInitRow = 25802
```

```
'PasteInitRow = 2 '9/29/2003
```

```
'PasteInitRow = 25298 '8/17/2006
```

```
'PasteInitRow = 2 '6/25/2007
'PasteInitRow = 11570 '10/20/2008
```

```
' -----
```

```
BegDate = "12/4/2022"
EndDate = "10/3/2023"
```

```
PasteInitCol = 2
PasteInitRow = 43154 '50427 '49923 '41619 '3 '29186 '19298
```

```
PasteRowStep = 24
PasteColStep = 0
```

```
'BegDate = "9/6/2018"
'EndDate = "12/31/2018"
```

```
' -----
```

```
'BegDate = "1/1/2019"
'EndDate = "1/31/2019"
```

```
' -----
```

```
'PasteRowStep = 24
```

```
'PasteInitCol = 2
'PasteInitRow = 1491
```

```
'BegDate = "9/30/2020"
'EndDate = "11/30/2020"
```

```
MonthStamp = "B2"
```

```
' -----
```

```
' Chilled Water PRODUCTION
```

```
' -----
```

```
' Gas Natural Gas
```

```
'PasteInitCol = 2
```

```
'mGetDCSDaily BegDate, EndDate, "3.1.2", "A12:G35", ToPage, PasteInitRow, PasteInitCol, PasteRowStep, PasteColStep, 0, MonthStamp
```

```
' Steam Production
```

```
'PasteInitCol = 3
```

```
'mGetDCSDaily BegDate, EndDate, "3.3.0", "A12:I35", ToPage, PasteInitRow, PasteInitCol, PasteRowStep, PasteColStep, 0, MonthStamp
```

```
' Power Generation
```

```
'PasteInitCol = 3
```

```
mGetDCSDaily BegDate, EndDate, "3.2.0", "A12:S35", ToPage, PasteInitRow, PasteInitCol, PasteRowStep, PasteColStep, 0, MonthStamp
```

```
' HRSG1
```

```
' GET APPROACH STEAM PRODUCTION
```

```
'mGetDCSDaily BegDate, EndDate, "1.0.0", "F13:F36", ToPage, PasteInitRow, PasteInitCol, PasteRowStep, PasteColStep, 0
```

```
End Function
```

```
Function mm_GetHRSG()
```

```
Dim BegDate As String
```

```
Dim EndDate As String
```

```
Dim DCSstring As String
```

```
Dim FromDCSPage As String
```

```
Dim ToPage As String
```

```
Dim PasteInitRow As Integer
```

```
Dim PasteInitCol As Integer
```

```
Dim PasteRowStep As Integer
```

```
Dim PasteColStep As Integer
```

```
Dim MonthStamp As String

BegDate = "10/1/2016"
EndDate = "6/23/2018"

ToPage = "pastedata.xlsx"

PasteInitRow = 2
PasteInitCol = 2
PasteRowStep = 24
PasteColStep = 0

MonthStamp = "e:2"
' -----
' Chilled Water PRODUCTION
' -----

' HRSG1
' GET APPROACH STEAM PRODUCTION
'mGetDCSDaily BegDate, EndDate, "1.0.0", "B13:C36", ToPage, PasteInitRow, PasteInitCol, PasteRowStep, PasteColStep, 0

' HRSG2
PasteInitCol = 3
mGetDCSDaily BegDate, EndDate, "2.0.0", "B13:C36", ToPage, PasteInitRow, PasteInitCol, PasteRowStep, PasteColStep, 0

End Function

Function mm_GetFeedWater()
Dim BegDate As String
Dim EndDate As String
Dim DCSstring As String
Dim FromDCSPage As String
Dim ToPage As String
Dim PasteInitRow As Integer
Dim PasteInitCol As Integer
Dim PasteRowStep As Integer
Dim PasteColStep As Integer
Dim MonthStamp As String

BegDate = "1/1/2010"
EndDate = "12/31/2010"

ToPage = "pastedata.xlsx"

PasteInitRow = 2
PasteInitCol = 2
PasteRowStep = 24
PasteColStep = 0

MonthStamp = "e:2"
' -----
' Chilled Water PRODUCTION
' -----

' HRSG1
' GET APPROACH STEAM PRODUCTION
'mGetDCSDaily BegDate, EndDate, "1.0.0", "F13:F36", ToPage, PasteInitRow, PasteInitCol, PasteRowStep, PasteColStep, 0

' HRSG2
PasteInitCol = 3
mGetDCSDaily BegDate, EndDate, "2.0.0", "F13:F36", ToPage, PasteInitRow, PasteInitCol, PasteRowStep, PasteColStep, 0, MonthStamp

End Function

Function mm_GetTemporaryGas()
Dim BegDate As String
Dim EndDate As String
Dim DCSstring As String
Dim FromDCSPage As String
Dim ToPage As String
```

```
Dim PasteInitRow As Single
Dim PasteInitCol As Integer
Dim PasteRowStep As Integer
Dim PasteColStep As Integer
```

```
BegDate = "9/5/2018"
EndDate = "10/7/2023"
```

```
' ToPage = "pastedata.xlsx"
ToPage = "wdep fuel ngas hourly klbs 3.1.2. 20231008.xlsx"
```

```
PasteInitRow = 122681 '2
PasteInitCol = 2
PasteRowStep = 24
PasteColStep = 0
```

```
' -----
' Chilled Water PRODUCTION
' -----
```

```
' GET APPROACH STEAM PRODUCTION
mGetDCSDaily BegDate, EndDate, "3.1.2", "B12:G35", ToPage, PasteInitRow, PasteInitCol, PasteRowStep, PasteColStep, 0
```

```
End Function
```

```
Function mm_GetGasConsumption()
```

```
Dim BegDate As String
Dim EndDate As String
Dim DCSstring As String
Dim FromDCSPage As String
Dim ToPage As String
Dim PasteInitRow As Single
Dim PasteInitCol As Integer
Dim PasteRowStep As Integer
Dim PasteColStep As Integer
```

```
BegDate = "10/3/2022"
EndDate = "9/30/2023"
```

```
'ToPage = "pastedata.xlsx"
'ToPage = "_targetsheets.xlsx"
ToPage = "wdep fuel ngas hourly klbs 3.1.2 20231009.xlsx"
```

```
PasteInitRow = 158417 '157913 '139193 '120369 ' 2906
PasteInitCol = 2
PasteRowStep = 24
PasteColStep = 0
```

```
' -----
' Chilled Water PRODUCTION
' -----
```

```
' GET APPROACH STEAM PRODUCTION
mGetDCSDaily BegDate, EndDate, "3.1.2", "A12:J35", ToPage, PasteInitRow, PasteInitCol, PasteRowStep, PasteColStep, 0
```

```
End Function
```

```
Function mm_GetSteamCampusLoadHourly()
```

```
Dim BegDate As String
Dim EndDate As String
Dim ToPage As String
Dim PasteInitRow As Integer
Dim PasteInitCol As Integer
```

```
' -----
' STEAM EFFICIENCY
' -----
```

```
'BegDate = "1/1/2013"  
BegDate = "3/1/2018"
```

```
EndDate = "11/30/2018"
```

```
' ToPage = "readings steam campusload hourly 20140228.xlsx"
```

```
ToPage = "pastedata.xlsx"
```

```
'PasteInitRow = 2
```

```
PasteInitRow = 3
```

```
PasteInitCol = 3
```

```
mGetDCSDaily BegDate, EndDate, "3.3.5", "C12:H35", ToPage, PasteInitRow, PasteInitCol, 24, 0, 0
```

```
'Exit Function
```

```
' -----
```

```
' Temp
```

```
' -----
```

```
PasteInitCol = 6
```

```
' Get Temperature
```

```
' Get Web Bulb
```

```
mGetDCSDaily BegDate, EndDate, "3.3.5", "B12:H35", ToPage, PasteInitRow, PasteInitCol, 24, 0, 0
```

```
Exit Function
```

```
' Get Web Bulb
```

```
mGetDCSDaily BegDate, EndDate, "3.4.3", "B24", ToPage, PasteInitRow, PasteInitCol, 24, 0, 1
```

```
' Get Web Bulb
```

```
mGetDCSDaily BegDate, EndDate, "3.4.3", "B28", ToPage, PasteInitRow, PasteInitCol, 24, 0, 2
```

```
' Get Web Bulb
```

```
mGetDCSDaily BegDate, EndDate, "3.4.3", "B32", ToPage, PasteInitRow, PasteInitCol, 24, 0, 3
```

```
' Get Web Bulb
```

```
mGetDCSDaily BegDate, EndDate, "3.4.3", "B36", ToPage, PasteInitRow, PasteInitCol, 24, 0, 4
```

```
' Get Web Bulb
```

```
mGetDCSDaily BegDate, EndDate, "3.4.3", "B40", ToPage, PasteInitRow, PasteInitCol, 24, 0, 5
```

```
' Get Web Bulb
```

```
mGetDCSDaily BegDate, EndDate, "3.4.3", "B44", ToPage, PasteInitRow, PasteInitCol, 24, 0, 6
```

```
' Get Web Bulb
```

```
mGetDCSDaily BegDate, EndDate, "3.4.3", "B48", ToPage, PasteInitRow, PasteInitCol, 24, 0, 7
```

```
' Get Web Bulb
```

```
mGetDCSDaily BegDate, EndDate, "3.4.3", "B52", ToPage, PasteInitRow, PasteInitCol, 24, 0, 8
```

```
' Get Web Bulb
```

```
mGetDCSDaily BegDate, EndDate, "3.4.3", "B54", ToPage, PasteInitRow, PasteInitCol, 24, 0, 9
```

```
' Get Web Bulb
```

```
mGetDCSDaily BegDate, EndDate, "3.4.3", "B58", ToPage, PasteInitRow, PasteInitCol, 24, 0, 10
```

```
' Get Web Bulb
```

```
mGetDCSDaily BegDate, EndDate, "3.4.3", "B62", ToPage, PasteInitRow, PasteInitCol, 24, 0, 11
```

```
' Get Web Bulb
```

```
mGetDCSDaily BegDate, EndDate, "3.4.3", "B66", ToPage, PasteInitRow, PasteInitCol, 24, 0, 12
```

```
' Get Web Bulb
```

```
mGetDCSDaily BegDate, EndDate, "3.4.3", "B70", ToPage, PasteInitRow, PasteInitCol, 24, 0, 13
```

```
' Get Web Bulb
```

```
mGetDCSDaily BegDate, EndDate, "3.4.3", "B74", ToPage, PasteInitRow, PasteInitCol, 24, 0, 14
```

```
' Get Web Bulb
```

```
mGetDCSDaily BegDate, EndDate, "3.4.3", "B78", ToPage, PasteInitRow, PasteInitCol, 24, 0, 15
```

```
' Get Web Bulb
```

```
mGetDCSDaily BegDate, EndDate, "3.4.3", "B82", ToPage, PasteInitRow, PasteInitCol, 24, 0, 16
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B86", ToPage, PasteInitRow, PasteInitCol, 24, 0, 17
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B90", ToPage, PasteInitRow, PasteInitCol, 24, 0, 18
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B94", ToPage, PasteInitRow, PasteInitCol, 24, 0, 19
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B98", ToPage, PasteInitRow, PasteInitCol, 24, 0, 20
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B102", ToPage, PasteInitRow, PasteInitCol, 24, 0, 21
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B106", ToPage, PasteInitRow, PasteInitCol, 24, 0, 22
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B110", ToPage, PasteInitRow, PasteInitCol, 24, 0, 23

' -----
' Web Bulb
' -----
PasteInitCol = 7

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C20", ToPage, PasteInitRow, PasteInitCol, 24, 0, 0
'Exit Function

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C24", ToPage, PasteInitRow, PasteInitCol, 24, 0, 1
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C28", ToPage, PasteInitRow, PasteInitCol, 24, 0, 2
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C32", ToPage, PasteInitRow, PasteInitCol, 24, 0, 3
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C36", ToPage, PasteInitRow, PasteInitCol, 24, 0, 4
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C40", ToPage, PasteInitRow, PasteInitCol, 24, 0, 5
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C44", ToPage, PasteInitRow, PasteInitCol, 24, 0, 6
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C48", ToPage, PasteInitRow, PasteInitCol, 24, 0, 7
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C52", ToPage, PasteInitRow, PasteInitCol, 24, 0, 8
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C54", ToPage, PasteInitRow, PasteInitCol, 24, 0, 9
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C58", ToPage, PasteInitRow, PasteInitCol, 24, 0, 10
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C62", ToPage, PasteInitRow, PasteInitCol, 24, 0, 11
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C66", ToPage, PasteInitRow, PasteInitCol, 24, 0, 12
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C70", ToPage, PasteInitRow, PasteInitCol, 24, 0, 13
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C74", ToPage, PasteInitRow, PasteInitCol, 24, 0, 14
```

```

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C78", ToPage, PasteInitRow, PasteInitCol, 24, 0, 15

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C82", ToPage, PasteInitRow, PasteInitCol, 24, 0, 16

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C86", ToPage, PasteInitRow, PasteInitCol, 24, 0, 17

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C90", ToPage, PasteInitRow, PasteInitCol, 24, 0, 18

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C94", ToPage, PasteInitRow, PasteInitCol, 24, 0, 19

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C98", ToPage, PasteInitRow, PasteInitCol, 24, 0, 20

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C102", ToPage, PasteInitRow, PasteInitCol, 24, 0, 21

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C106", ToPage, PasteInitRow, PasteInitCol, 24, 0, 22

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C110", ToPage, PasteInitRow, PasteInitCol, 24, 0, 23

```

End Function

Function mm\_GetSteamParasiticsHourly()

```

Dim BegDate As String
Dim EndDate As String
Dim ToPage As String
Dim PasteInitRow As Single
Dim PasteInitCol As Integer
Dim EquipData As String

```

```

'ToPage = "_pastedata 20221225.xlsx"
'ToPage = "summaryreport_demand_steam.xlsx"
ToPage = "wdep steam parasitics hourly 3.3.1 20230925.xlsx"

```

```

'PasteInitRow = 2 '12314
PasteInitCol = 2

```

```

'PasteInitRow = 6962
'PasteInitCol = 3

```

```

BegDate = "7/22/2023"
EndDate = "8/31/2023"
PasteInitRow = 66218 '3434 '26714 '53354 '33842 '26306 '2 '53354 '2 '32762 '2

```

```

EquipData = "B13:B35"

```

```

' -----
' STEAM DEMAND
' -----

```

```

mmGetSteamHourlyEquip BegDate, EndDate, "3.3.1", EquipData, ToPage, PasteInitRow, PasteInitCol, 24, 0, 0

```

```

'PasteInitRow = 1
'PasteInitCol = 15

```

```

'mGetDCSDaily BegDate, EndDate, "3.3.3", "A12:E35", ToPage, PasteInitRow, PasteInitCol, 24, 0, 0

```

Exit Function

```

' -----
' Temp
' -----

```



PasteInitCol = 6

' Get Temperature

' Get Web Bulb

mGetDCSDaily BegDate, EndDate, "3.4.3", "B20", ToPage, PasteInitRow, PasteInitCol, 24, 0, 0

'Exit Function

' Get Web Bulb

mGetDCSDaily BegDate, EndDate, "3.4.3", "B24", ToPage, PasteInitRow, PasteInitCol, 24, 0, 1

' Get Web Bulb

mGetDCSDaily BegDate, EndDate, "3.4.3", "B28", ToPage, PasteInitRow, PasteInitCol, 24, 0, 2

' Get Web Bulb

mGetDCSDaily BegDate, EndDate, "3.4.3", "B32", ToPage, PasteInitRow, PasteInitCol, 24, 0, 3

' Get Web Bulb

mGetDCSDaily BegDate, EndDate, "3.4.3", "B36", ToPage, PasteInitRow, PasteInitCol, 24, 0, 4

' Get Web Bulb

mGetDCSDaily BegDate, EndDate, "3.4.3", "B40", ToPage, PasteInitRow, PasteInitCol, 24, 0, 5

' Get Web Bulb

mGetDCSDaily BegDate, EndDate, "3.4.3", "B44", ToPage, PasteInitRow, PasteInitCol, 24, 0, 6

' Get Web Bulb

mGetDCSDaily BegDate, EndDate, "3.4.3", "B48", ToPage, PasteInitRow, PasteInitCol, 24, 0, 7

' Get Web Bulb

mGetDCSDaily BegDate, EndDate, "3.4.3", "B52", ToPage, PasteInitRow, PasteInitCol, 24, 0, 8

' Get Web Bulb

mGetDCSDaily BegDate, EndDate, "3.4.3", "B54", ToPage, PasteInitRow, PasteInitCol, 24, 0, 9

' Get Web Bulb

mGetDCSDaily BegDate, EndDate, "3.4.3", "B58", ToPage, PasteInitRow, PasteInitCol, 24, 0, 10

' Get Web Bulb

mGetDCSDaily BegDate, EndDate, "3.4.3", "B62", ToPage, PasteInitRow, PasteInitCol, 24, 0, 11

' Get Web Bulb

mGetDCSDaily BegDate, EndDate, "3.4.3", "B66", ToPage, PasteInitRow, PasteInitCol, 24, 0, 12

' Get Web Bulb

mGetDCSDaily BegDate, EndDate, "3.4.3", "B70", ToPage, PasteInitRow, PasteInitCol, 24, 0, 13

' Get Web Bulb

mGetDCSDaily BegDate, EndDate, "3.4.3", "B74", ToPage, PasteInitRow, PasteInitCol, 24, 0, 14

' Get Web Bulb

mGetDCSDaily BegDate, EndDate, "3.4.3", "B78", ToPage, PasteInitRow, PasteInitCol, 24, 0, 15

' Get Web Bulb

mGetDCSDaily BegDate, EndDate, "3.4.3", "B82", ToPage, PasteInitRow, PasteInitCol, 24, 0, 16

' Get Web Bulb

mGetDCSDaily BegDate, EndDate, "3.4.3", "B86", ToPage, PasteInitRow, PasteInitCol, 24, 0, 17

' Get Web Bulb

mGetDCSDaily BegDate, EndDate, "3.4.3", "B90", ToPage, PasteInitRow, PasteInitCol, 24, 0, 18

' Get Web Bulb

mGetDCSDaily BegDate, EndDate, "3.4.3", "B94", ToPage, PasteInitRow, PasteInitCol, 24, 0, 19

' Get Web Bulb

mGetDCSDaily BegDate, EndDate, "3.4.3", "B98", ToPage, PasteInitRow, PasteInitCol, 24, 0, 20

' Get Web Bulb

mGetDCSDaily BegDate, EndDate, "3.4.3", "B102", ToPage, PasteInitRow, PasteInitCol, 24, 0, 21

' Get Web Bulb

mGetDCSDaily BegDate, EndDate, "3.4.3", "B106", ToPage, PasteInitRow, PasteInitCol, 24, 0, 22

```
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B110", ToPage, PasteInitRow, PasteInitCol, 24, 0, 23
```

```
' -----
' Web Bulb
' -----
PasteInitCol = 7
```

```
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C20", ToPage, PasteInitRow, PasteInitCol, 24, 0, 0
```

```
'Exit Function
```

```
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C24", ToPage, PasteInitRow, PasteInitCol, 24, 0, 1
```

```
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C28", ToPage, PasteInitRow, PasteInitCol, 24, 0, 2
```

```
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C32", ToPage, PasteInitRow, PasteInitCol, 24, 0, 3
```

```
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C36", ToPage, PasteInitRow, PasteInitCol, 24, 0, 4
```

```
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C40", ToPage, PasteInitRow, PasteInitCol, 24, 0, 5
```

```
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C44", ToPage, PasteInitRow, PasteInitCol, 24, 0, 6
```

```
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C48", ToPage, PasteInitRow, PasteInitCol, 24, 0, 7
```

```
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C52", ToPage, PasteInitRow, PasteInitCol, 24, 0, 8
```

```
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C54", ToPage, PasteInitRow, PasteInitCol, 24, 0, 9
```

```
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C58", ToPage, PasteInitRow, PasteInitCol, 24, 0, 10
```

```
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C62", ToPage, PasteInitRow, PasteInitCol, 24, 0, 11
```

```
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C66", ToPage, PasteInitRow, PasteInitCol, 24, 0, 12
```

```
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C70", ToPage, PasteInitRow, PasteInitCol, 24, 0, 13
```

```
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C74", ToPage, PasteInitRow, PasteInitCol, 24, 0, 14
```

```
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C78", ToPage, PasteInitRow, PasteInitCol, 24, 0, 15
```

```
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C82", ToPage, PasteInitRow, PasteInitCol, 24, 0, 16
```

```
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C86", ToPage, PasteInitRow, PasteInitCol, 24, 0, 17
```

```
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C90", ToPage, PasteInitRow, PasteInitCol, 24, 0, 18
```

```
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C94", ToPage, PasteInitRow, PasteInitCol, 24, 0, 19
```

```
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C98", ToPage, PasteInitRow, PasteInitCol, 24, 0, 20
```

```
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C102", ToPage, PasteInitRow, PasteInitCol, 24, 0, 21

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C106", ToPage, PasteInitRow, PasteInitCol, 24, 0, 22

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C110", ToPage, PasteInitRow, PasteInitCol, 24, 0, 23
```

End Function

Function mm\_GetSteamDemandHourly()

```
Dim BegDate As String
Dim EndDate As String
Dim ToPage As String
Dim PasteInitRow As Single
Dim PasteInitCol As Integer
Dim EquipData As String
```

```
'ToPage = "_pastedata 20221225.xlsx"
'ToPage = "summaryreport_demand_steam.xlsx"
ToPage = "wdep steam hourly 20231011.xlsx"
```

```
'PasteInitRow = 2 '12314
PasteInitCol = 1
```

```
'BegDate = "2/1/2022"
'EndDate = "11/30/2022"
```

```
'BegDate = "1/1/2017"
'EndDate = "12/31/2017"
```

```
'BegDate = "1/1/2018"
'EndDate = "6/30/2018"
```

```
'PasteInitRow = 5954
'PasteInitCol = 3
```

```
'BegDate = "9/6/2018"
'EndDate = "10/8/2018"
```

```
'PasteInitRow = 6962
'PasteInitCol = 3
```

```
BegDate = "12/18/2022"
EndDate = "8/31/2023"
PasteInitRow = 61034 '53354 '33842 '26306 '2 '53354 '2 '32762 '2
```

```
EquipData = "B12:B35"
```

```
' -----
' STEAM DEMAND
' -----
```

```
mmGetSteamHourlyEquip BegDate, EndDate, "3.3.0", EquipData, ToPage, PasteInitRow, PasteInitCol, 24, 0, 0
```

```
'PasteInitRow = 1
'PasteInitCol = 15
```

```
'mGetDCSDaily BegDate, EndDate, "3.3.3", "A12:E35", ToPage, PasteInitRow, PasteInitCol, 24, 0, 0
```

Exit Function

```
' -----
' Temp
' -----
```

```
PasteInitCol = 6
' Get Temperature
```

```
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B20", ToPage, PasteInitRow, PasteInitCol, 24, 0, 0

'Exit Function

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B24", ToPage, PasteInitRow, PasteInitCol, 24, 0, 1

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B28", ToPage, PasteInitRow, PasteInitCol, 24, 0, 2

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B32", ToPage, PasteInitRow, PasteInitCol, 24, 0, 3

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B36", ToPage, PasteInitRow, PasteInitCol, 24, 0, 4

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B40", ToPage, PasteInitRow, PasteInitCol, 24, 0, 5

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B44", ToPage, PasteInitRow, PasteInitCol, 24, 0, 6

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B48", ToPage, PasteInitRow, PasteInitCol, 24, 0, 7

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B52", ToPage, PasteInitRow, PasteInitCol, 24, 0, 8

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B54", ToPage, PasteInitRow, PasteInitCol, 24, 0, 9

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B58", ToPage, PasteInitRow, PasteInitCol, 24, 0, 10

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B62", ToPage, PasteInitRow, PasteInitCol, 24, 0, 11

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B66", ToPage, PasteInitRow, PasteInitCol, 24, 0, 12

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B70", ToPage, PasteInitRow, PasteInitCol, 24, 0, 13

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B74", ToPage, PasteInitRow, PasteInitCol, 24, 0, 14

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B78", ToPage, PasteInitRow, PasteInitCol, 24, 0, 15

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B82", ToPage, PasteInitRow, PasteInitCol, 24, 0, 16

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B86", ToPage, PasteInitRow, PasteInitCol, 24, 0, 17

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B90", ToPage, PasteInitRow, PasteInitCol, 24, 0, 18

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B94", ToPage, PasteInitRow, PasteInitCol, 24, 0, 19

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B98", ToPage, PasteInitRow, PasteInitCol, 24, 0, 20

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B102", ToPage, PasteInitRow, PasteInitCol, 24, 0, 21
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B106", ToPage, PasteInitRow, PasteInitCol, 24, 0, 22
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B110", ToPage, PasteInitRow, PasteInitCol, 24, 0, 23
```

```
' -----  
' Web Bulb  
' -----  
PasteInitCol = 7  
  
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "C20", ToPage, PasteInitRow, PasteInitCol, 24, 0, 0  
  
'Exit Function  
  
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "C24", ToPage, PasteInitRow, PasteInitCol, 24, 0, 1  
  
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "C28", ToPage, PasteInitRow, PasteInitCol, 24, 0, 2  
  
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "C32", ToPage, PasteInitRow, PasteInitCol, 24, 0, 3  
  
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "C36", ToPage, PasteInitRow, PasteInitCol, 24, 0, 4  
  
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "C40", ToPage, PasteInitRow, PasteInitCol, 24, 0, 5  
  
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "C44", ToPage, PasteInitRow, PasteInitCol, 24, 0, 6  
  
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "C48", ToPage, PasteInitRow, PasteInitCol, 24, 0, 7  
  
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "C52", ToPage, PasteInitRow, PasteInitCol, 24, 0, 8  
  
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "C54", ToPage, PasteInitRow, PasteInitCol, 24, 0, 9  
  
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "C58", ToPage, PasteInitRow, PasteInitCol, 24, 0, 10  
  
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "C62", ToPage, PasteInitRow, PasteInitCol, 24, 0, 11  
  
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "C66", ToPage, PasteInitRow, PasteInitCol, 24, 0, 12  
  
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "C70", ToPage, PasteInitRow, PasteInitCol, 24, 0, 13  
  
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "C74", ToPage, PasteInitRow, PasteInitCol, 24, 0, 14  
  
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "C78", ToPage, PasteInitRow, PasteInitCol, 24, 0, 15  
  
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "C82", ToPage, PasteInitRow, PasteInitCol, 24, 0, 16  
  
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "C86", ToPage, PasteInitRow, PasteInitCol, 24, 0, 17  
  
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "C90", ToPage, PasteInitRow, PasteInitCol, 24, 0, 18  
  
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "C94", ToPage, PasteInitRow, PasteInitCol, 24, 0, 19  
  
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "C98", ToPage, PasteInitRow, PasteInitCol, 24, 0, 20  
  
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "C102", ToPage, PasteInitRow, PasteInitCol, 24, 0, 21
```

```
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C106", ToPage, PasteInitRow, PasteInitCol, 24, 0, 22
```

```
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C110", ToPage, PasteInitRow, PasteInitCol, 24, 0, 23
```

```
End Function
```

```
Function mm_GetXcelElecDemandHourly()
```

```
Dim BegDate As String
Dim EndDate As String
Dim ToPage As String
Dim PasteInitRow As Integer
Dim PasteInitCol As Integer
```

```
BegDate = "5/1/2018"
EndDate = "6/30/2018"
ToPage = "summaryreport_campus elec feeders.xlsx"
PasteInitRow = 2
PasteInitCol = 1
```

```
' -----
' STEAM EFFICIENCY
' -----
```

```
mmGetXcelDaily BegDate, EndDate, "Meter Data", "A14:Z3000", ToPage, PasteInitRow, PasteInitCol, 3000, 0, 0
```

```
End Function
```

```
Function mmGetXcelDaily(BegDate As Variant, EndDate As Variant, FromXcelPage As String, FromRange As String, ToPage As String, PasteInitRow As Integer, PasteInitCol As Integer, RowStep As Integer, ColStep As Integer, pstep As Integer, Optional MonthStamp As String)
```

```
Dim DirString As String
Dim RowCount As Integer
Dim NoMonths As Integer
Dim CurDay As Date
Dim i, j As Integer
Dim TotalDays As Integer
Dim ColValue As Integer
Dim xcelfile As String
Dim XcelSheet As Worksheet
Dim xcelfilename As String
```

```
' -----
' Copy Values from Xcel Files logs. Variables
' -----
```

```
' InitCellPaste is to be used instead of RowCount
'Row
RowCount = PasteInitRow
ColValue = PasteInitCol
```

```
' Determine how many months in period
NoMonths = DateDiff("m", BegDate, EndDate)
```

```
' Determine how many months through loop through.
' If same month then NoMonths = 1
If NoMonths = 0 Then NoMonths = 1
```

```
' Initialize date counter for extraction
CurDay = CDate(BegDate)
```

```
' Disable clipboard message
Application.DisplayAlerts = False
```

```
' Determine how many days in the month and then use it to find top end value for FOR loop
For i = 1 To NoMonths + 1
```

```
    ' Calculate year based on BegDate
    DirString = "N:\xcel\xcel_" & Year(CurDay) & "\"
```

```

' Define directory
xcelfilename = "CU Billing " & Format(CurDay, "m d yyy") & " 2723940.xlsx"
xcelfile = DirString & xcelfilename

Workbooks.Open xcelfile, False

ActiveWindow.ScrollWorkbookTabs Position:=xlLast
Sheets(FromXcelPage).Select

' Define range using row, column format
'Range(Cells(CopyInitRow, CopyInitCol), Cells(CopyInitRow + FromRange, CopyInitCol)).Select
Range(FromRange).Select
Selection.Copy

' Paste Date
Windows(ToPage).Activate
' Paste into predefine colum and row
ActiveSheet.Cells(RowCount, ColValue + ColStep).Select
ActiveSheet.PasteSpecial
'ActiveSheet.Cells(RowCount, 10).Value = CurDate

' -----

'If MonthStamp Then
'   Workbooks.Open DirString & Format(CurDay, "m d yyy") & "\" & Format(CurDay, "m-d-yyy")
& ".xls", , True
'   ActiveWindow.ScrollWorkbookTabs Position:=xlLast
'   Sheets(FromDCSPage).Select

'   Define range using row, column format

'   Range(MonthStamp).Select
'   Selection.Copy

'   Paste Date
'   Windows(ToPage).Activate
'   Paste into predefine colum and row
'   ActiveSheet.Cells(RowCount, ColValue + ColStep - 1).Select
'   ActiveSheet.Paste
'   ActiveSheet.Cells(RowCount, 10).Value = CurDate
'End If

' -----

' Close the file
Windows(xcelfilename).Activate
Workbooks(xcelfilename).Close False

'CurDay = DateAdd("d", 1, CurDay)
CurDay = DateAdd("m", 1, CurDay)
' Shift to the right
ColValue = ColValue + ColStep
RowCount = RowCount + RowStep
Next i

Application.DisplayAlerts = True

End Function

Function mm_GetCWTemp()
Dim BegDate As String
Dim EndDate As String
Dim ToPage As String
Dim PasteInitRow As Integer
Dim PasteInitCol As Integer

BegDate = "11/20/2009"
EndDate = "12/31/2009"
ToPage = "balance_cwprod_20100901.xls"
PasteInitRow = 2
PasteInitCol = 2

```

```
' -----  
' CHILLED WATER EFFICIENCY  
' -----
```

```
mGetDCSDaily BegDate, EndDate, "3.3.8", "C14:F37", ToPage, PasteInitRow, PasteInitCol, 24, 0, 0
```

```
' -----  
' Temp  
' -----
```

```
PasteInitCol = 6  
' Get Temperature
```

```
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "B20", ToPage, PasteInitRow, PasteInitCol, 24, 0, 0
```

```
'Exit Function
```

```
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "B24", ToPage, PasteInitRow, PasteInitCol, 24, 0, 1
```

```
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "B28", ToPage, PasteInitRow, PasteInitCol, 24, 0, 2
```

```
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "B32", ToPage, PasteInitRow, PasteInitCol, 24, 0, 3
```

```
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "B36", ToPage, PasteInitRow, PasteInitCol, 24, 0, 4
```

```
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "B40", ToPage, PasteInitRow, PasteInitCol, 24, 0, 5
```

```
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "B44", ToPage, PasteInitRow, PasteInitCol, 24, 0, 6
```

```
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "B48", ToPage, PasteInitRow, PasteInitCol, 24, 0, 7
```

```
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "B52", ToPage, PasteInitRow, PasteInitCol, 24, 0, 8
```

```
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "B54", ToPage, PasteInitRow, PasteInitCol, 24, 0, 9
```

```
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "B58", ToPage, PasteInitRow, PasteInitCol, 24, 0, 10
```

```
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "B62", ToPage, PasteInitRow, PasteInitCol, 24, 0, 11
```

```
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "B66", ToPage, PasteInitRow, PasteInitCol, 24, 0, 12
```

```
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "B70", ToPage, PasteInitRow, PasteInitCol, 24, 0, 13
```

```
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "B74", ToPage, PasteInitRow, PasteInitCol, 24, 0, 14
```

```
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "B78", ToPage, PasteInitRow, PasteInitCol, 24, 0, 15
```

```
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "B82", ToPage, PasteInitRow, PasteInitCol, 24, 0, 16
```

```
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "B86", ToPage, PasteInitRow, PasteInitCol, 24, 0, 17
```

```
' Get Web Bulb  
mGetDCSDaily BegDate, EndDate, "3.4.3", "B90", ToPage, PasteInitRow, PasteInitCol, 24, 0, 18
```



```
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B94", ToPage, PasteInitRow, PasteInitCol, 24, 0, 19

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B98", ToPage, PasteInitRow, PasteInitCol, 24, 0, 20

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B102", ToPage, PasteInitRow, PasteInitCol, 24, 0, 21
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B106", ToPage, PasteInitRow, PasteInitCol, 24, 0, 22
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "B110", ToPage, PasteInitRow, PasteInitCol, 24, 0, 23

' -----
' Web Bulb
' -----
PasteInitCol = 7

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C20", ToPage, PasteInitRow, PasteInitCol, 24, 0, 0

'Exit Function

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C24", ToPage, PasteInitRow, PasteInitCol, 24, 0, 1

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C28", ToPage, PasteInitRow, PasteInitCol, 24, 0, 2

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C32", ToPage, PasteInitRow, PasteInitCol, 24, 0, 3

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C36", ToPage, PasteInitRow, PasteInitCol, 24, 0, 4

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C40", ToPage, PasteInitRow, PasteInitCol, 24, 0, 5

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C44", ToPage, PasteInitRow, PasteInitCol, 24, 0, 6

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C48", ToPage, PasteInitRow, PasteInitCol, 24, 0, 7

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C52", ToPage, PasteInitRow, PasteInitCol, 24, 0, 8

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C54", ToPage, PasteInitRow, PasteInitCol, 24, 0, 9

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C58", ToPage, PasteInitRow, PasteInitCol, 24, 0, 10

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C62", ToPage, PasteInitRow, PasteInitCol, 24, 0, 11

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C66", ToPage, PasteInitRow, PasteInitCol, 24, 0, 12

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C70", ToPage, PasteInitRow, PasteInitCol, 24, 0, 13

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C74", ToPage, PasteInitRow, PasteInitCol, 24, 0, 14

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C78", ToPage, PasteInitRow, PasteInitCol, 24, 0, 15

' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C82", ToPage, PasteInitRow, PasteInitCol, 24, 0, 16

' Get Web Bulb
```

```

mGetDCSDaily BegDate, EndDate, "3.4.3", "C86", ToPage, PasteInitRow, PasteInitCol, 24, 0, 17
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C90", ToPage, PasteInitRow, PasteInitCol, 24, 0, 18
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C94", ToPage, PasteInitRow, PasteInitCol, 24, 0, 19
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C98", ToPage, PasteInitRow, PasteInitCol, 24, 0, 20
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C102", ToPage, PasteInitRow, PasteInitCol, 24, 0, 21
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C106", ToPage, PasteInitRow, PasteInitCol, 24, 0, 22
' Get Web Bulb
mGetDCSDaily BegDate, EndDate, "3.4.3", "C110", ToPage, PasteInitRow, PasteInitCol, 24, 0, 23

```

End Function

Function mm\_GetElecGenOutput()

```

Dim BegDate As String
Dim EndDate As String
Dim ToPage As String
Dim PasteInitRow As Integer
Dim PasteInitCol As Integer

```

```

BegDate = "9/1/1999"
EndDate = "12/31/1999"
ToPage = "pastedata.xls"
PasteInitRow = 2
PasteInitCol = 1

```

```

' -----
' PLANT EFFICIENCY
' -----

```

```

ToPage = "1999_generator_output.xls"
'mGetDCSDaily BegDate, EndDate, "1.0.1", "B13:B36", ToPage, PasteInitRow, PasteInitCol, 0, 1

```

```

ToPage = "1999_blade_path_temperature.xls"
'mGetDCSDaily BegDate, EndDate, "1.0.1", "E13:E36", ToPage, PasteInitRow, PasteInitCol, 0, 1

```

```

ToPage = "1999_GT_fuel_supply_pressure.xls"
'mGetDCSDaily BegDate, EndDate, "1.0.2", "G13:G36", ToPage, PasteInitRow, PasteInitCol, 0, 1

```

```

ToPage = "1999_temperature_steam_reducing_nox.xls"
'mGetDCSDaily BegDate, EndDate, "1.0.3", "B13:B36", ToPage, PasteInitRow, PasteInitCol, 0, 1

```

```

ToPage = "1999_flow_rate_steam_reducing_nox.xls"
'mGetDCSDaily BegDate, EndDate, "1.0.1", "I13:I36", ToPage, PasteInitRow, PasteInitCol, 0, 1

```

```

ToPage = "1999_flow_rate_steam_increasing_output.xls"
'mGetDCSDaily BegDate, EndDate, "1.0.1", "J13:J36", ToPage, PasteInitRow, PasteInitCol, 0, 1

```

```

ToPage = "1999_inlet_guide_opening.xls"
'mGetDCSDaily BegDate, EndDate, "1.0.1", "C13:C36", ToPage, PasteInitRow, PasteInitCol, 0, 1

```

```

ToPage = "1999_exhaust_gas_temperature.xls"
'mGetDCSDaily BegDate, EndDate, "1.0.1", "G13:G36", ToPage, PasteInitRow, PasteInitCol, 0, 1

```

```

ToPage = "1999_shaft_vibration_01.xls"
'mGetDCSDaily BegDate, EndDate, "1.0.1", "K13:K36", ToPage, PasteInitRow, PasteInitCol, 0, 1

```

```

ToPage = "1999_shaft_vibration_02.xls"
'mGetDCSDaily BegDate, EndDate, "1.0.1", "L13:L36", ToPage, PasteInitRow, PasteInitCol, 0, 1

```

```

ToPage = "1999_GT_fuel_supply_temperature.xls"
'mGetDCSDaily BegDate, EndDate, "1.0.3", "G13:G36", ToPage, PasteInitRow, PasteInitCol, 0, 1

```

```

ToPage = "1999_steam_injection_temperature.xls"
'mGetDCSDaily BegDate, EndDate, "1.0.3", "C13:C36", ToPage, PasteInitRow, PasteInitCol, 0, 1

```

```
ToPage = "1999_intake_air_temperature.xls"
```

```
'mGetDCSDaily BegDate, EndDate, "1.0.1", "D13:D36", ToPage, PasteInitRow, PasteInitCol, 0, 1
```

```
ToPage = "1999_GT_fuel_flow_rate.xls"
```

```
'mGetDCSDaily BegDate, EndDate, "1.0.1", "F13:F36", ToPage, PasteInitRow, PasteInitCol, 0, 1
```

```
End Function
```

```
Function mm_GetPlantEfficiency()
```

```
Dim BegDate As String
```

```
Dim EndDate As String
```

```
Dim ToPage As String
```

```
Dim PasteInitRow As Single
```

```
Dim PasteInitCol As Integer
```

```
BegDate = "6/1/2019"
```

```
EndDate = "6/30/2019"
```

```
ToPage = "pastedata.xlsx"
```

```
PasteInitRow = 2
```

```
PasteInitCol = 1
```

```
' -----
```

```
' PLANT EFFICIENCY
```

```
' -----
```

```
mGetDCSDaily BegDate, EndDate, "3.4.2", "I39", ToPage, PasteInitRow, PasteInitCol, 2, 0, 0
```

```
End Function
```

```
Function mm_GetElecGenerationOn()
```

```
Dim BegDate As String
```

```
Dim EndDate As String
```

```
Dim ToPage As String
```

```
Dim PasteInitRow As Single
```

```
Dim PasteInitCol As Integer
```

```
BegDate = "10/1/2022"
```

```
EndDate = "4/31/2023"
```

```
' ToPage = "_pastedata 20230125.xlsx"
```

```
ToPage = "_main prod 20221202.xlsx"
```

```
PasteInitRow = 283 '464
```

```
PasteInitCol = 2
```

```
' -----
```

```
' TURBINE GENERATION ON
```

```
' -----
```

```
'mGetDCSDaily BegDate, EndDate, "3.2.2", "B15", ToPage, PasteInitRow, PasteInitCol + 1, 1, 0, 1
```

```
'mGetDCSDaily BegDate, EndDate, "3.2.2", "C15", ToPage, PasteInitRow, PasteInitCol + 2, 1, 0, 1
```

```
'mGetDCSDaily BegDate, EndDate, "3.2.2", "D15", ToPage, PasteInitRow, PasteInitCol + 3, 1, 0, 1
```

```
mGetDCSDaily BegDate, EndDate, "3.2.2", "B31:J31", ToPage, PasteInitRow, PasteInitCol, 1, 0, 1
```

```
Exit Function
```

```
' Campus Load
```

```
'mGetDCSDaily BegDate, EndDate, "3.2.2", "E15", ToPage, PasteInitRow, PasteInitCol + 4, 1
```

```
'mGetDCSDaily BegDate, EndDate, "3.2.2", "F15", ToPage, PasteInitRow, PasteInitCol + 5, 1
```

```
' Export
```

```
'mGetDCSDaily BegDate, EndDate, "3.2.2", "G15", ToPage, PasteInitRow, PasteInitCol + 6, 1
```

```
'mGetDCSDaily BegDate, EndDate, "3.2.2", "H15", ToPage, PasteInitRow, PasteInitCol + 7, 1
```

```
' Import
```

```
'mGetDCSDaily BegDate, EndDate, "3.2.2", "I15", ToPage, PasteInitRow, PasteInitCol + 8, 1
```

```
'mGetDCSDaily BegDate, EndDate, "3.2.2", "J15", ToPage, PasteInitRow, PasteInitCol + 9, 1
```

```
End Function
```

```
Function mm_GetElecGenMonthly()
```

```
Dim BegDate As String
```

```
Dim EndDate As String
```

```
Dim ToPage As String
```

```
Dim PasteInitRow As Single
```

```
Dim PasteInitCol As Integer
```

```
BegDate = "10/1/2022"
```

```
EndDate = "4/30/2023"
```

```
' ToPage = "_pastedata 20230125.xlsx"
```

```
ToPage = "_main prod 20221202.xlsx"
```

```
PasteInitRow = 283 '226 '224 '159 '2 '229 '225 '464
```

```
PasteInitCol = 2
```

```
' -----
' TURBINE GENERATION ON
' -----
```

```
'mGetDCSDaily BegDate, EndDate, "3.2.2", "B15", ToPage, PasteInitRow, PasteInitCol + 1, 1, 0, 1
```

```
'mGetDCSDaily BegDate, EndDate, "3.2.2", "C15", ToPage, PasteInitRow, PasteInitCol + 2, 1, 0, 1
```

```
'mGetDCSDaily BegDate, EndDate, "3.2.2", "D15", ToPage, PasteInitRow, PasteInitCol + 3, 1, 0, 1
```

```
'mmGetDCSNumberMonthly BegDate, EndDate, "3.2.2", "B31:D31", "pastedata.xlsx", PasteInitRow, PasteInitCol, 1, 0, 1
```

```
'mGetDCSMonthly BegDate, EndDate, "3.2.2", "B31:J31", ToPage, PasteInitRow, PasteInitCol, 1, 0, 1,
```

```
mGetDCSMonthly BegDate, EndDate, "3.2.4", "B31:J31", ToPage, PasteInitRow, PasteInitCol, 1, 0, 1,
```

```
Exit Function
```

```
' Campus Load
```

```
'mGetDCSDaily BegDate, EndDate, "3.2.2", "E15", ToPage, PasteInitRow, PasteInitCol + 4, 1
```

```
'mGetDCSDaily BegDate, EndDate, "3.2.2", "F15", ToPage, PasteInitRow, PasteInitCol + 5, 1
```

```
' Export
```

```
'mGetDCSDaily BegDate, EndDate, "3.2.2", "G15", ToPage, PasteInitRow, PasteInitCol + 6, 1
```

```
'mGetDCSDaily BegDate, EndDate, "3.2.2", "H15", ToPage, PasteInitRow, PasteInitCol + 7, 1
```

```
' Import
```

```
'mGetDCSDaily BegDate, EndDate, "3.2.2", "I15", ToPage, PasteInitRow, PasteInitCol + 8, 1
```

```
'mGetDCSDaily BegDate, EndDate, "3.2.2", "J15", ToPage, PasteInitRow, PasteInitCol + 9, 1
```

```
End Function
```

```
Function mm_GetElecGenerationOff()
```

```
Dim BegDate As String
```

```
Dim EndDate As String
```

```
Dim ToPage As String
```

```
Dim PasteInitRow As Integer
```

```
Dim PasteInitCol As Integer
```

```
BegDate = "8/28/2012"
```

```
EndDate = "12/31/2012"
```

```
ToPage = "pastedata.xlsx"
```

```
PasteInitRow = 2799
```

```
PasteInitCol = 7
```

```
' -----
' TURBINE GENERATION OFF
' -----
```

```
'mGetDCSDaily BegDate, EndDate, "3.2.4", "B15", ToPage, PasteInitRow, PasteInitCol, 1
```

```
'mGetDCSDaily BegDate, EndDate, "3.2.4", "C15", ToPage, PasteInitRow, PasteInitCol + 1, 1
```

```
'mGetDCSDaily BegDate, EndDate, "3.2.4", "D15", ToPage, PasteInitRow, PasteInitCol + 2, 1
```

```
mGetDCSDaily BegDate, EndDate, "3.2.4", "B15:D15", "pastedata.xlsx", PasteInitRow, PasteInitCol, 1, 0, 1
```

```
Exit Function
```

```
' Campus Load
```

```
'mGetDCSDaily BegDate, EndDate, "3.2.4", "E15", ToPage, PasteInitRow, PasteInitCol + 3, 1
```

```
'mGetDCSDaily BegDate, EndDate, "3.2.4", "F15", ToPage, PasteInitRow, PasteInitCol + 4, 1
```

```
' Export
```

```

'mGetDCSDaily BegDate, EndDate, "3.2.4", "G15", ToPage, PasteInitRow, PasteInitCol + 5, 1
'mGetDCSDaily BegDate, EndDate, "3.2.4", "H15", ToPage, PasteInitRow, PasteInitCol + 6, 1

' Import
'mGetDCSDaily BegDate, EndDate, "3.2.4", "I15", ToPage, PasteInitRow, PasteInitCol + 7, 1
'mGetDCSDaily BegDate, EndDate, "3.2.4", "J15", ToPage, PasteInitRow, PasteInitCol + 8, 1

End Function

Function mm_GetSteamProduction()
Dim BegDate As String
Dim EndDate As String
Dim DCSstring As String
Dim FromDCSPage As String
Dim ToPage As String
Dim PasteInitRow As Single
Dim PasteInitCol As Integer
Dim PasteRowStep As Integer

BegDate = "1/1/2016"
EndDate = "8/30/2023"

ToPage = " _main prod 20230930.xlsx" ' "_pastedata 20230719.xlsx" ' "balance_steam.xls" '
'ToPage = "wdep steam prod hourly 3.3.0 20230714.xlsx" ' 20221225.xlsx" ' "balance_steam.xls" '
'ToPage = "dreq wdep fuel boilers 20230717.xlsx" ' steam prod hourly 3.3.0 20230714.xlsx" ' 202212
25.xlsx" ' "balance_steam.xls" '

PasteInitRow = 2 '34 '767 '1 '5490 '5362 '3770 '2
PasteInitCol = 3
PasteRowStep = 1

' -----
' STEAM PRODUCTION
' -----

' HRSG 1 STEAM PRODUCTION
'mGetDCSDaily BegDate, EndDate, "3.3.2", "B15", ToPage, PasteInitRow, PasteInitCol + 2, PasteRowSt
ep, 0, 1

' HRSG 2 STEAM PRODUCTION
'mGetDCSDaily BegDate, EndDate, "3.3.2", "B17", ToPage, PasteInitRow, PasteInitCol + 3, PasteRowSt
ep, 0, 1

' BOILER 3 STEAM PRODUCTION
'mGetDCSDaily BegDate, EndDate, "3.3.2", "B19", ToPage, PasteInitRow, PasteInitCol + 4, PasteRowSt
ep, 0, 1

' BOILER 4 STEAM PRODUCTION
'mGetDCSDaily BegDate, EndDate, "3.3.2", "B21", ToPage, PasteInitRow, PasteInitCol + 5, PasteRowSt
ep, 0, 1
'mGetDCSMonthly BegDate, EndDate, "3.3.2", "B21", ToPage, PasteInitRow, PasteInitCol, 0, 1, 1, Pas
teRowStep

' -----
' STEAM USAGE
' -----

' STEAM USAGE CTG01
mGetDCSDaily BegDate, EndDate, "3.3.2", "B25", ToPage, PasteInitRow, PasteInitCol + 6, PasteRowSt
ep, 0, 1

' STEAM USAGE CTG02
'mGetDCSDaily BegDate, EndDate, "3.3.2", "B27", ToPage, PasteInitRow, PasteInitCol + 7, PasteRowSt
ep, 0, 1

' STEAM USAGE DA
'mGetDCSDaily BegDate, EndDate, "3.3.2", "B29", ToPage, PasteInitRow, PasteInitCol + 8, PasteRowSt
ep, 0, 1

' STEAM USAGE DA
'mGetDCSMonthly BegDate, EndDate, "3.3.2", "A11:C33", ToPage, PasteInitRow, PasteInitCol, 0, 1, 1,
PasteRowStep

```

```

'mGetDCSMonthly(BegDate, EndDate, FromDCSPage, FromRange As String, ToPage As String, PasteInitRow
As Single, PasteInitCol As Integer, CopyInitRow As Integer, RowStep As Integer)
' -----
' STEAM CAMPUS TOTAL
' -----

' STEAM CAMPUS_OUT_TOTAL
'mGetDCSDaily BegDate, EndDate, "3.3.2", "N5", ToPage, PasteInitRow, PasteInitCol + 6, PasteRowSte
p, 0, 1

```

End Function

Function mm\_GetGasCTGFlow()

```

Dim BegDate As String
Dim EndDate As String
Dim DCSstring As String
Dim FromDCSPage As String
Dim ToPage As String
Dim PasteInitRow As Integer
Dim PasteInitCol As Integer
Dim PasteRowStep As Integer
Dim PasteColStep As Integer

```

```

'BegDate = "9/1/1999"
'EndDate = "5/28/2003"

```

```

BegDate = "5/29/2003"
EndDate = "12/31/2005"

```

```

ToPage = "pastedata.xlsx"

```

```

'PasteInitRow = 2
'PasteInitCol = 2

```

```

PasteInitRow = 2
PasteInitCol = 12

```

```

PasteRowStep = 24
PasteColStep = 0

```

```

' -----
' Chilled Water PRODUCTION
' -----

```

```

' GET APPROACH STEAM PRODUCTION
mGetDCSDaily BegDate, EndDate, "2.0.2", "h13:h36", ToPage, PasteInitRow, PasteInitCol, PasteRowSte
p, PasteColStep, 1

```

End Function

Function mm\_GetApproach()

```

Dim BegDate As String
Dim EndDate As String
Dim DCSstring As String
Dim FromDCSPage As String
Dim ToPage As String
Dim PasteInitRow As Integer
Dim PasteInitCol As Integer
Dim PasteRowStep As Integer
Dim PasteColStep As Integer

```

```

BegDate = "11/01/2013"
EndDate = "6/30/2014"

```

```

ToPage = "balance approach 20140601.xlsx"

```

```

PasteInitRow = 2
PasteInitCol = 2
PasteRowStep = 96
PasteColStep = 0

```

```

' -----

```

```
' Chilled Water PRODUCTION
```

```
' -----
```

```
' GET APPROACH STEAM PRODUCTION
```

```
mGetDCSDaily BegDate, EndDate, "3.4.3", "G17:G112", ToPage, PasteInitRow, PasteInitCol, PasteRowStep, PasteColStep, 1
```

```
End Function
```

```
Function mGetDCSDaily(BegDate As Variant, EndDate As Variant, FromDCSPage As String, FromRange As String, ToPage As String, PasteInitRow As Single, PasteInitCol As Integer, RowStep As Integer, ColStep As Integer, pstep As Integer, Optional MonthStamp As String)
```

```
Dim DirString As String
```

```
Dim NoMonths As Variant
```

```
Dim CurMonth As Date, CurDay As Date
```

```
Dim i, j As Integer
```

```
Dim TotalDays As Integer
```

```
Dim ColValue As Integer
```

```
Dim item As Variant
```

```
Dim CurDayPack1() As Variant
```

```
Dim CurDayPack2() As Variant
```

```
Dim CurDayPack3() As Variant
```

```
Dim RowCount As Single
```

```
CurDayPack1 = Array("11/29/2002", _
"4/1/2003", _
"12/7/2004", _
"3/30/2000", _
"8/6/1999", _
"5/26/2010", _
"10/25/2010", _
"8/27/2011", _
"12/1/2011", _
"3/3/2012", _
"12/11/2002", _
"8/2/2012", _
"9/11/2012", _
"9/12/2012", _
"6/9/2013", _
"6/9/2013", _
"1/30/2014", _
"4/7/2014")
```

```
CurDayPack2 = Array("4/8/2014", _
"4/13/2014", _
"10/6/2017", _
"1/14/2018", _
"6/7/2018", _
"10/9/2018", _
"10/10/2018", _
"10/11/2018", _
"10/12/2018", _
"10/13/2018", _
"10/14/2018", _
"10/15/2018", _
"10/16/2018", _
"10/17/2018", _
"11/14/2018", _
"12/1/2018", _
"12/2/2018", _
"1/29/2019", _
"2/19/2019", _
"2/20/2019", _
"3/3/2019", _
"4/16/2019", _
"5/3/2019", _
"5/4/2019", _
"5/25/2019")
```

```
CurDayPack3 = Array("5/28/2019", _
"7/1/2019")
```

```
Debug.Print mmConcatenateArrays(CurDayPack1, CurDayPack2)
Debug.Print mmConcatenateArrays(CurDayPack1, CurDayPack3)
```

```
'CurDayPack3 = Split(Join(CurDayPack1, ",") & "," & Join(CurDayPack2, ","), ",")
```

```
'ReDim CurDayPack3 (UBound(CurDayPack1) + UBound(CurDayPack2) + 1)
```

```
'For i = 0 To UBound(CurDayPack1)
'    CurDayPack3(i * 2) = CurDayPack1(i)
'    CurDayPack3(i * 2 + 1) = CurDayPack2(i)
'Next i
```

```
For i = 0 To UBound(CurDayPack1)
    Debug.Print CurDayPack1(i)
Next i
```

```
'Exit Function
```

```
' -----
' -----
' Copy Values from DCS logs. Variables
' -----
```

```
' InitCellPaste is to be used instead of RowCount
'Row
RowCount = PasteInitRow
ColValue = PasteInitCol
```

```
' Determine how many months in period
NoMonths = DateDiff("m", BegDate, EndDate)
' Determine how many days in CurMonth
TotalDays = DateDiff("d", BegDate, EndDate)
```

```
' Determine how many months through loop through.
' If same month then NoMonths = 1
If NoMonths = 0 Then NoMonths = 1
```

```
' Initialize date counter for extraction
CurDay = CDate(BegDate)
```

```
' Disable clipboard message
Application.DisplayAlerts = False
```

```
' Determine how many days in the month and then use it to find top end value for FOR loop
For i = 1 To TotalDays + 1
```

```
    ' Skip this corrupted files
    If Not mmIsInArray(CurDay, CurDayPack1) Then
```

```
        'If CurDay <> "11/29/2002" And CurDay <> "4/1/2003" And CurDay <> "12/7/2004" And CurDay <> "3
/30/2000" And CurDay <> "8/6/1999" And CurDay <> "5/26/2010" And CurDay <> "10/25/2010" And CurDay <>
"8/27/2011" And CurDay <> "12/1/2011" And CurDay <> "3/3/2012" And CurDay <> "12/11/2002" And CurDay <
> "8/2/2012" And CurDay <> "9/11/2012" And CurDay <> "9/12/2012" And CurDay <> "6/9/2013" And CurDay <
> "6/9/2013" And CurDay <> "1/30/2014" And CurDay <> "4/7/2014" And CurDay <> "4/8/2014" And CurDay <
> "4/13/2014" And CurDay <> "10/6/2017" And CurDay <> "1/14/2018" And CurDay <> "6/7/2018" And CurDay <
> "10/9/2018" And CurDay <> "10/10/2018" And CurDay <> "10/11/2018" And CurDay <> "10/12/2018" And Cur
Day <> "10/13/2018" And CurDay <> "10/14/2018" And CurDay <> "10/15/2018" And CurDay <> "10/16/2018" A
nd CurDay <> "10/17/2018" And CurDay <> "11/14/2018" And CurDay <> "1/29/2019" And CurDay <> "2/19/201
9" And CurDay <> "2/20/2019" Then
```

```
            ' Calculate year based on BegDate
            DirString = "Z:\dcs_logs\dcs_logs_" & LCase(Format(CurDay, "yyyy")) & "\" & LCase(Format(C
urDay, "mm mmm yyyy")) & "\" & Format(CurDay, "m-d-yyyy") & ".xls"
            'DirString = "Z:\dcs_logs\dcs_logs_" & LCase(Format(CurDay, "yyyy")) & "\" & LCase(Format(
CurDay, "mmm yyyy")) & "\" & Format(CurDay, "m-d-yyyy") & ".xls"
```



```

' DirString = "C:\Users\vanle\Documents\cotterpin\dc_logs\" & LCase(Format(CurDay, "mm mm
m yyyy")) & "\" & Format(CurDay, "m-d-yyyy") & ".xls"
' DirString = "C:\Users\vanle\Documents\cotterpin\dc_logs\dc_logs_" & Year(CurDay) & "\"
& LCase(Format(CurDay, "mm mmm yyyy")) & "\" & Format(CurDay, "m-d-yyyy") & ".xls"

Debug.Print DirString

' Define directory
Workbooks.Open DirString, , True
ActiveWindow.ScrollWorkbookTabs Position:=xlLast
Sheets(FromDCSPage).Select

' Define range using row, column format
' Range(Cells(CopyInitRow, CopyInitCol), Cells(CopyInitRow + FromRange, CopyInitCol)).Select

Range(FromRange).Select
Selection.Copy

' Paste Date
Windows(ToPage).Activate
' Paste into predefine colum and row
ActiveSheet.Cells(RowCount, ColValue + ColStep).Select
ActiveSheet.PasteSpecial
' ActiveSheet.Cells(RowCount, 10).Value = CurDate

' -----

' If MonthStamp Then
'   Workbooks.Open DirString & Format(CurDay, "mmm yyyy") & "\" & Format(CurDay, "m-d-yyy
y") & ".xls", , True
'   ActiveWindow.ScrollWorkbookTabs Position:=xlLast
'   Sheets(FromDCSPage).Select

'   Define range using row, column format

'   Range(MonthStamp).Select
'   Selection.Copy

'   Paste Date
'   Windows(ToPage).Activate
'   Paste into predefine colum and row
'   ActiveSheet.Cells(RowCount, ColValue + ColStep - 1).Select
'   ActiveSheet.Paste
'   ActiveSheet.Cells(RowCount, 10).Value = CurDate
' End If

' -----

' Close the file
Workbooks(Format(CurDay, "m-d-yyyy") & ".xls").Close False

' End If
End If

CurDay = DateAdd("d", 1, CurDay)

' Shift to the right
ColValue = ColValue + ColStep
RowCount = RowCount + RowStep
Next i

CurMonth = DateAdd("m", 1, CurMonth)

Application.DisplayAlerts = True

End Function

Function mmGetCWProductionHourly(BegDate As Date, EndDate As String)
Dim Equip As String
Dim ToPage As String
Dim PasteInitRow As Integer
Dim PasteInitCol As Integer

```

```
Dim EquipData As String
```

```
BegDate = "7/1/2017"
```

```
EndDate = "5/1/2018"
```

```
ToPage = "chilledwater demand.xlsx"
```

```
' -----
' STEAM DEMAND
' -----
```

```
'Boiler 3 + time
Equip = "boiler3"
EquipData = "B12:B35"
```

```
PasteInitRow = 2 '8786
```

```
PasteInitCol = 1
```

```
'mmGetSteamHourlyEquip Equip, BegDate, EndDate, "3.3.0", EquipData, ToPage, PasteInitRow, PasteIni
tCol, 24, 0, 0
```

```
' -----
```

```
'Boiler 4 + time
Equip = "boiler4"
EquipData = "d12:d35"
```

```
PasteInitRow = 2 '8786
```

```
PasteInitCol = 5
```

```
'mmGetSteamHourlyEquip Equip, BegDate, EndDate, "3.3.0", EquipData, ToPage, PasteInitRow, PasteIni
tCol, 24, 0, 0
```

```
' -----
```

```
' hrsg 01
Equip = "hrsg01"
EquipData = "f12:f35"
```

```
PasteInitRow = 2 '8786
```

```
PasteInitCol = 9
```

```
'mmGetSteamHourlyEquip Equip, BegDate, EndDate, "3.3.0", EquipData, ToPage, PasteInitRow, PasteIni
tCol, 24, 0, 0
```

```
' -----
```

```
' hrsg 02
Equip = "hrsg02"
EquipData = "H12:H35"
```

```
PasteInitRow = 2 '8786
```

```
PasteInitCol = 13
```

```
'mmGetSteamHourlyEquip Equip, BegDate, EndDate, "3.3.0", EquipData, ToPage, PasteInitRow, PasteIni
tCol, 24, 0, 0
```

```
End Function
```

```
' -----
' -----
```

```
Function mmGetCWHourlyEquip(Equip As String, BegDate As Variant, EndDate As Variant, FromDCSPage As St
ring, EquipData As String, ToPage As String, PasteInitRow As Integer, PasteInitCol As Integer, RowStep
As Integer, ColStep As Integer, pstep As Integer, Optional MonthStamp As String)
```

```
Dim DirString As String
```

```
Dim RowCount As Integer
```

```
Dim NoMonths As Integer
```

```
Dim CurMonth As Date, CurDay As Date
```

```
Dim i, j As Integer
```

```
Dim TotalDays As Integer
```

```
Dim ColValue As Integer
```

```
Dim dcslog As Workbook
```

```
Dim dcslogtab As Sheets
```

```
' -----
```

```
' Copy Values from DCS logs. Variables
```

```
' -----
```

```

RowCount = PasteInitRow
ColValue = PasteInitCol
RowStep = 24

' Determine how many months in period
NoMonths = DateDiff("m", BegDate, EndDate)
' Determine how many days in CurMonth
TotalDays = DateDiff("d", BegDate, EndDate)

' Determine how many months through loop through.
' If same month then NoMonths = 1
If NoMonths = 0 Then NoMonths = 1

' Initialize date counter for extraction
CurDay = CDate(BegDate)

' Disable clipboard message
Application.DisplayAlerts = False

' Determine how many days in the month and then use it to find top end value for FOR loop
For i = 1 To TotalDays + 1

    ' Skip this corrupted files
    If CurDay <> "10/27/1999" And CurDay <> "11/12/2001" And CurDay <> "11/29/2002" And CurDay <>
"4/1/2003" And CurDay <> "12/7/2004" And CurDay <> "3/30/2000" And CurDay <> "8/6/1999" And CurDay <>
"5/26/2010" And CurDay <> "10/25/2010" And CurDay <> "8/27/2011" And CurDay <> "12/1/2011" And CurDay
<> "3/3/2012" And CurDay <> "12/11/2002" And CurDay <> "8/2/2012" And CurDay <> "9/11/2012" And CurDay
<> "9/12/2012" And CurDay <> "6/9/2013" And CurDay <> "6/9/2013" And CurDay <> "1/30/2014" And CurDay
<> "4/7/2014" And CurDay <> "4/8/2014" And CurDay <> "4/13/2014" And CurDay <> "9/17/2016" And CurDay
<> "9/18/2016" And CurDay <> "9/19/2016" And CurDay <> "9/20/2016" And CurDay <> "10/6/2017" And CurD
ay <> "1/14/2018" Then

        ' Calculate year based on BegDate
        DirString = "N:\dcs_logs\dcs_logs_" & Year(CurDay) & "\"

        ' Define DCS page to be opened
        Set dcslog = Workbooks.Open(DirString & Format(CurDay, "mmm yyyy") & "\" & Format(CurDay,
"m-d-yyyy") & ".xls", , True)

        ' -----
        ' Copy Paste TimeStamp
        ' -----
        'ActiveWindow.ScrollWorkbookTabs Position:=xlLast
        dcslog.Activate
        Sheets(FromDCSPage).Select

        ActiveSheet.Range("A12:A35").Select
        Selection.Copy

        ' Paste Date
        Windows(ToPage).Activate

        ' Paste into predefine colum and row
        ActiveSheet.Cells(RowCount, ColValue + ColStep + 1).Select
        ActiveSheet.PasteSpecial
        'ActiveSheet.Cells(RowCount, ColValue + ColStep).Format = "yyyy-MM-dd hh:mm:ss"

        ' -----
        ' Add Date
        ' -----
        'ActiveSheet.Cells(RowCount, 10).Value = CurDate
        Debug.Print ColValue
        ActiveSheet.Range(Cells(RowCount, ColValue), Cells(RowCount + RowStep - 1, ColValue)).Valu
e = CurDay

        ' -----
        ' Date - Copy / Paste Demand Values
        ' -----
        dcslog.Activate
        Sheets(FromDCSPage).Range(EquipData).Select
        Selection.Copy

```

```

' Paste Date
Windows(ToPage).Activate

' Paste current day
ActiveSheet.Cells(RowCount, ColValue + 2).Select
ActiveSheet.PasteSpecial

' -----
' Copy Paste Demand Values
' -----
ActiveSheet.Range(Cells(RowCount, ColValue + 3), Cells(RowCount + RowStep - 1, ColValue +
3)).Value = Equip
' ActiveSheet.Range(Cells(2, 3), Cells(10, 4)).Select

'If MonthStamp Then
'   Workbooks.Open DirString & Format(CurDay, "mmm yyyy") & "\" & Format(CurDay, "m-d-yyy
y") & ".xls", , True
'   ActiveWindow.ScrollWorkbookTabs Position:=xlLast
'   Sheets(FromDCSPage).Select

' Define range using row, column format

'   Range(MonthStamp).Select
'   Selection.Copy

'   Paste Date
'   Windows(ToPage).Activate
'   Paste into predefine colum and row
'   ActiveSheet.Cells(RowCount, ColValue + ColStep- 1).Select
'   ActiveSheet.Paste
'   ActiveSheet.Cells(RowCount, 10).Value = CurDate
'End If

' -----

' Close the file
Workbooks(Format(CurDay, "m-d-yyyy") & ".xls").Close False

End If
CurDay = DateAdd("d", 1, CurDay)

' Shift to the right
'ColValue = ColValue + ColStep
RowCount = RowCount + RowStep
Next i

CurMonth = DateAdd("m", 1, CurMonth)

Application.DisplayAlerts = True

End Function
Function mmGetSteamProductionHourly(BegDate As Date, EndDate As Date)
Dim Equip As String
Dim ToPage As String
Dim PasteInitRow As Integer
Dim PasteInitCol As Integer
Dim EquipData As String

'BegDate = "8/1/2017"
'EndDate = "8/14/2017"

ToPage = "steam demand.xlsx"

' -----
' STEAM DEMAND
' -----

'Boiler 3 + time
Equip = "boiler3"
EquipData = "A12:J35"

PasteInitRow = 2 '8786

```

```

PasteInitCol = 1

'mmGetSteamHourlyEquip Equip, BegDate, EndDate, "3.3.0", EquipData, ToPage, PasteInitRow, PasteIni
tCol, 24, 0, 0

' -----

'Boiler 4 + time
'Equip = "boiler4"
'EquipData = "d12:d35"

'PasteInitRow = 2 '8786
'PasteInitCol = 5
'mmGetSteamHourlyEquip Equip, BegDate, EndDate, "3.3.0", EquipData, ToPage, PasteInitRow, PasteIni
tCol, 24, 0, 0

' -----

' hrsg 01
'Equip = "hrsg01"
'EquipData = "f12:f35"

'PasteInitRow = 2 '8786
'PasteInitCol = 9
'mmGetSteamHourlyEquip Equip, BegDate, EndDate, "3.3.0", EquipData, ToPage, PasteInitRow, PasteIni
tCol, 24, 0, 0

' -----

' hrsg 02
'Equip = "hrsg02"
'EquipData = "H12:H35"

'PasteInitRow = 2 '8786
'PasteInitCol = 13
'mmGetSteamHourlyEquip Equip, BegDate, EndDate, "3.3.0", EquipData, ToPage, PasteInitRow, PasteIni
tCol, 24, 0, 0

'Debug.Print "test"

End Function

```

```

' -----
' -----
Function mmGetSteamHourlyEquip(BegDate As Variant, EndDate As Variant, FromDCSPage As String, EquipDat
a As String, ToPage As String, PasteInitRow As Single, PasteInitCol As Integer, RowStep As Integer, Co
lStep As Integer, pstep As Integer, Optional MonthStamp As String)

```

```

Dim DirString As String
Dim RowCount As Single
Dim NoMonths As Integer
Dim CurMonth As Date, CurDay As Date
Dim i, j As Integer
Dim TotalDays As Integer
Dim ColValue As Integer
Dim dcslog As Workbook
Dim dcslogtab As Sheets

```

```

' -----
' Copy Values from DCS logs. Variables
' -----

```

```

RowCount = PasteInitRow
ColValue = PasteInitCol
RowStep = 24

```

```

' Determine how many months in period
NoMonths = DateDiff("m", BegDate, EndDate)
' Determine how many days in CurMonth
TotalDays = DateDiff("d", BegDate, EndDate)

```

```

' Determine how many months through loop through.
' If same month then NoMonths = 1
If NoMonths = 0 Then NoMonths = 1

```

```

' Initialize date counter for extraction
CurDay = CDate(BegDate)

' Disable clipboard message
Application.DisplayAlerts = False

' Determine how many days in the month and then use it to find top end value for FOR loop
For i = 1 To TotalDays + 1

    ' Skip this corrupted files
    If CurDay <> "10/27/1999" And CurDay <> "11/12/2001" And CurDay <> "11/29/2002" And CurDay <>
"4/1/2003" And CurDay <> "12/7/2004" And CurDay <> "3/30/2000" And CurDay <> "8/6/1999" And CurDay <>
"5/26/2010" And CurDay <> "10/25/2010" And CurDay <> "8/27/2011" And CurDay <> "12/1/2011" And CurDay
<> "3/3/2012" And CurDay <> "12/11/2002" And CurDay <> "8/2/2012" And CurDay <> "9/11/2012" And CurDay
<> "9/12/2012" And CurDay <> "6/9/2013" And CurDay <> "6/9/2013" And CurDay <> "1/30/2014" And CurDay
<> "4/7/2014" And CurDay <> "4/8/2014" And CurDay <> "4/13/2014" And CurDay <> "9/17/2016" And CurDay
<> "9/18/2016" And CurDay <> "9/19/2016" And CurDay <> "9/20/2016" And CurDay <> "10/6/2017" And CurDay
<> "1/14/2018" And CurDay <> "6/7/2018" And CurDay <> "11/14/2018" And CurDay <> "12/1/2018" And CurDay
<> "12/2/2018" Then

        ' Calculate year based on BegDate
        DirString = "Z:\dcs_logs\dcs_logs_" & Year(CurDay) & "\"
        DirString = DirString & Format(CurDay, "mm mmm yyyy") & "\" & Format(CurDay, "m-d-yyyy") & ".xls"
        DirString = DirString & Format(CurDay, "mmm yyyy") & "\" & Format(CurDay, "m-d-yyyy") & ".xls"

        ' Define DCS page to be opened
        Set dcslog = Workbooks.Open(DirString, , True)

        ' -----
        ' Copy Paste TimeStamp
        ' -----
        'ActiveWindow.ScrollWorkbookTabs Position:=xlLast
        dcslog.Activate
        Sheets(FromDCSPage).Select

        ActiveSheet.Range("A12:J36").Select
        Selection.Copy

        ' Paste Date
        Windows(ToPage).Activate

        ' Paste into predefine colum and row
        ActiveSheet.Cells(RowCount, ColValue + ColStep + 1).Select
        ActiveSheet.PasteSpecial
        'ActiveSheet.Cells(RowCount, ColValue + ColStep).Format = "yyyy-MM-dd hh:mm:ss"

        ' -----
        ' Add Date
        ' -----
        'ActiveSheet.Cells(RowCount, 10).Value = CurDate
        Debug.Print ColValue
        ActiveSheet.Range(Cells(RowCount, ColValue), Cells(RowCount + RowStep - 1, ColValue)).Value = CurDay

        ' -----
        ' Date - Copy / Paste Demand Values
        ' -----
        'dcslog.Activate
        'Sheets(FromDCSPage).Range(EquipData).Select
        'Selection.Copy

        ' Paste Date
        'Windows(ToPage).Activate

        ' Paste current day
        'ActiveSheet.Cells(RowCount, ColValue + 2).Select
        'ActiveSheet.PasteSpecial

        ' -----
        ' Copy Paste Demand Values

```

```

' -----
'ActiveSheet.Range(Cells(RowCount, ColValue + 3), Cells(RowCount + RowStep - 1, ColValue +
3)).Value = Equip
' ActiveSheet.Range(Cells(2, 3), Cells(10, 4)).Select

'If MonthStamp Then
'   Workbooks.Open DirString & Format(CurDay, "mmm yyyy") & "\" & Format(CurDay, "m-d-yyy
y") & ".xls", , True
'   ActiveWindow.ScrollWorkbookTabs Position:=xlLast
'   Sheets(FromDCSPage).Select

'   Define range using row, column format

'   Range(MonthStamp).Select
'   Selection.Copy

'   Paste Date
'   Windows(ToPage).Activate
'   Paste into predefine colum and row
'   ActiveSheet.Cells(RowCount, ColValue + ColStep - 1).Select
'   ActiveSheet.Paste
'   ActiveSheet.Cells(RowCount, 10).Value = CurDate
'End If

' -----

' Close the file
Workbooks(Format(CurDay, "m-d-yyyy") & ".xls").Close False

End If
CurDay = DateAdd("d", 1, CurDay)

' Shift to the right
'ColValue = ColValue + ColStep
RowCount = RowCount + RowStep
Next i

CurMonth = DateAdd("m", 1, CurMonth)

Application.DisplayAlerts = True

```

End Function

```

Function mGetDCSMonthly(BegDate As String, EndDate As String, FromDCSPage As String, FromRange As Stri
ng, ToPage As String, PasteInitRow As Single, PasteInitCol As Integer, CopyInitRow As Integer, CopyIni
tCol As Integer, pstep As Integer, RowStep As Integer)

```

```

' mGetDCSMonthly BegDate, EndDate, "3.1.1", "B15:D15", "pastedata.xlsx", PasteInitRow, PasteIn
itCol, 1, 0, 1

```

```

Dim DirString As String
Dim RowCount As Integer
Dim TotalDays As Integer
Dim DCSDirectory As String
Dim FileNameLoc As String
Dim ColValue As Integer
Dim NoMonths As Integer
Dim i As Integer
Dim ColStep As Integer
'Dim RowStep As Integer
Dim CurMonth As Date

```

```

'Dim BegDate As Date
'Dim DirString As String

```

```

' -----
' Copy Values from DCS logs. Variables
' -----

```

```

' InitCellPaste is to be used instead of RowCount
RowCount = PasteInitRow
ColValue = PasteInitCol

```

```

'RowStep = 1

```

```

' Determine how many months in period
NoMonths = DateDiff("m", BegDate, EndDate)

' Determine how many months through loop through.
' If same month then NoMonths = 1
If NoMonths = 0 Then NoMonths = 1

' -----
' Paste Values into Report
' -----

' Beginning date for extraction
CurMonth = CDate(BegDate)

' Disable clipboard message
Application.DisplayAlerts = False

' Determine how many days in the month and then use it to find top end value for FOR loop
For i = 1 To NoMonths + 1

    TotalDays = DaysInMonth(CurMonth)

    ' InitCellPaste is to be used instead of RowCount

    DirString = "Z:\dcs_logs\"

    CurMonth = DateValue(Month(CurMonth) & "/" & TotalDays & "/" & Year(CurMonth))

    'If CurMonth <> "10/27/1999" And CurMonth <> "11/12/2001" And CurMonth <> "11/29/2002" And Cur
CurMonth <> "4/1/2003" And CurMonth <> "12/7/2004" And CurMonth <> "3/30/2000" And CurMonth <> "8/6/1999
" And CurMonth <> "5/26/2010" And CurMonth <> "10/25/2010" And CurMonth <> "8/27/2011" And CurMonth <>
"12/1/2011" And CurMonth <> "3/3/2012" And CurMonth <> "12/11/2002" And CurMonth <> "8/2/2012" And Cu
rMonth <> "9/11/2012" And CurMonth <> "9/12/2012" And CurMonth <> "6/9/2013" And CurMonth <> "1/30/201
4" And CurMonth <> "1/31/2013" And CurMonth <> "4/7/2014" And CurMonth <> "4/8/2014" And CurMonth <> "
4/13/2014" Then

        ' Determine how many days in the month and then use it to find top end value for FOR loop

        'Do While CurDate < DateAdd("m", 1, EndDate)
            ' Calculate year based on BegDate

            ' Build DCS subdirectory and filename
            DCSDirectory = DirString & "dcs_logs_" & Year(CurMonth)

            ' Filename location
            FileNameLoc = DCSDirectory & "\" & Format(CurMonth, "mm mmm yyyy") & "\" & Format(CurM
onth, "m-d-yyyy") & ".xls"
            'FileNameLoc = DCSDirectory & "\" & Format(CurMonth, "mmm yyyy") & "\" & Format(CurMon
th, "m-d-yyyy") & ".xls"

            Workbooks.Open FileNameLoc, , True

            ActiveWindow.ScrollWorkbookTabs Position:=xlLast
            Sheets(FromDCSPage).Select

            Range(FromRange).Select
            Selection.Copy

            Windows(ToPage).Activate

            'ActiveSheet.Cells(RowCount, 10).Value = CurDate

            ' Paste into predefine colum and row
            ActiveSheet.Cells(RowCount, ColValue).Select
            ActiveSheet.Paste

            ' Close the file
            Workbooks(Format(CurMonth, "m-d-yyyy") & ".xls").Close False

        'Loop
    'End If

```



```

CurMonth = DateAdd("m", 1, CurMonth)

TotalDays = DaysInMonth(CurMonth)
CurMonth = DateValue(Month(CurMonth) & "/" & TotalDays & "/" & Year(CurMonth))
' Shift to the right
ColValue = ColValue + ColStep
RowCount = RowCount + RowStep
Next i

```

```
CurMonth = DateAdd("m", 1, CurMonth)
```

```
Application.DisplayAlerts = True
```

```
End Function
```

```
Function mm_GetGeneratorTemperatureHourly()
```

```

Dim BegDate As String
Dim EndDate As String
Dim ToPage As String
Dim PasteInitRow As Single
Dim PasteInitCol As Integer

```

```

'BegDate = "8/1/2021"
BegDate = "1/1/2022"
EndDate = "5/1/2022"
ToPage = "wdep pastedata 1.0.1 2.0.1 20230509.xlsx"
PasteInitRow = 60434
PasteInitCol = 2

```

```

' -----
' STEAM EFFICIENCY
' -----

```

```

' -----
' Temp
' -----

```

```
' Get Temperature
```

```
' Get generator temperatures
```

```
'mGetDCSDaily BegDate, EndDate, "1.0.3", "I13:K36", ToPage, PasteInitRow, PasteInitCol, 24, 0, 0
```

```
' Get power out put
```

```
'mGetDCSDaily BegDate, EndDate, "1.0.1", "a13:n36", ToPage, PasteInitRow, PasteInitCol, 24, 0, 0
```

```
mGetDCSDaily BegDate, EndDate, "2.0.1", "a13:n36", ToPage, PasteInitRow, PasteInitCol, 24, 0, 0
```

```
End Function
```

```
Function mmGetCW()
```

```
mGetDCSDaily "1/1/2012", "1/31/2012", "3.3.9", "C14:E37", "pastedata.xlsx", 1, 4, 24, 0, 1
```

```
End Function
```

```
Function mm_GetCWCampusLoadHourly()
```

```

Dim BegDate As String
Dim EndDate As String
Dim ToPage As String
Dim PasteInitRow As Integer
Dim PasteInitCol As Integer

```

```

' -----
' STEAM EFFICIENCY
' -----

```

```
'BegDate = "1/1/2013"
```

```
BegDate = "2/13/2013"
```

```
EndDate = "8/31/2013"
```

```
ToPage = "readings chilledwtr campusload hourly 20130831.xlsx"
```

```
'PasteInitRow= 2
```

```
PasteInitRow = 1034
```

```
PasteInitCol = 3
```

```
mGetDCSDaily BegDate, EndDate, "3.3.8", "C14:F37", ToPage, PasteInitRow, 4, 24, 0, 1
```

```
End Function
```

```
Function mm_GetCWSteamUsageHouly()
```

```
Dim BegDate As String
```

```
Dim EndDate As String
```

```
Dim ToPage As String
```

```
Dim PasteInitRow As Integer
```

```
Dim PasteInitCol As Integer
```

```
' -----  
' STEAM EFFICIENCY  
' -----
```

```
BegDate = "4/1/2013"
```

```
EndDate = "5/31/2013"
```

```
ToPage = "pastedata.xlsx"
```

```
PasteInitRow = 2
```

```
PasteInitCol = 3
```

```
mGetDCSDaily BegDate, EndDate, "3.3.9", "C14:E37", "pastedata.xlsx", 1, 4, 24, 0, 1
```

```
End Function
```