

8. ANEXO 1: CÓDIGO DE LAS MACROS

-Código "ITERARTURBINA":

```

Sub ITERARTURBINA()
Application.ScreenUpdating = False

Range("B13").Select
Selection.Copy
Range("C13").Select
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False
i = 0
Do
Range("C25").Select
Selection.Copy
Range("C13").Select
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False
i = i + 1
Loop While i < 300 And Abs(Range("c22") - Range("b22")) / Range("b22") > 0.0001

Application.ScreenUpdating = True
Application.ScreenUpdating = False

i = 0
Range("D13").Select
Selection.Copy
Range("E13").Select
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False
Do
Range("E25").Select
Application.CutCopyMode = False
Selection.Copy
Range("E13").Select
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False
i = i + 1
Loop While i < 300 And Abs(Range("e22") - Range("b22")) / Range("b22") > 0.0001

Application.ScreenUpdating = True
Application.ScreenUpdating = False

i = 0
Range("E13").Select
Selection.Copy
Range("F13").Select
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False
Do
i = 0
Range("F25").Select
Application.CutCopyMode = False
Selection.Copy
Range("F13").Select
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False
i = i + 1
Loop While i < 300 And Abs(Range("f22") - Range("b22")) / Range("b22") > 0.0001

Application.ScreenUpdating = True

End Sub

```

Figura 59. Código de la macro "ITERARTURBINA"

-Código "ITERARCOMPRESOR":

```

Sub ITERARCOMPRESOR()

Application.ScreenUpdating = False

Range("B13").Select
Selection.Copy
Range("C13").Select
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False
i = 0
Do
    Range("C25").Select
    Selection.Copy
    Range("C13").Select
    Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False
    i = i + 1
Loop While i < 300 And Abs(Range("c22") - Range("b22")) / Range("b22") > 0.0001

Application.ScreenUpdating = True
Application.ScreenUpdating = False

i = 0
Range("D13").Select
Selection.Copy
Range("E13").Select
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False
Do
    Range("E25").Select
    Application.CutCopyMode = False
    Selection.Copy
    Range("E13").Select
    Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False
    i = i + 1
Loop While i < 300 And Abs(Range("e22") - Range("b22")) / Range("b22") > 0.0001

Application.ScreenUpdating = True
Application.ScreenUpdating = False
i = 0
Range("E13").Select
Selection.Copy
Range("F13").Select
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False
Do
    Range("F25").Select
    Application.CutCopyMode = False
    Selection.Copy
    Range("F13").Select
    Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False
    i = i + 1
Loop While i < 300 And Abs(Range("f22") - Range("b22")) / Range("b22") > 0.0001

Application.ScreenUpdating = True
Application.ScreenUpdating = False
i = 0
Range("F13").Select
Selection.Copy
Range("H13").Select
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False
Do
    Range("H25").Select
    Application.CutCopyMode = False
    Selection.Copy
    Range("H13").Select
    Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False
    i = i + 1
Loop While i < 300 And Abs(Range("h22") - Range("b22")) / Range("b22") > 0.0001

Application.ScreenUpdating = True

```

```
Application.ScreenUpdating = False
i = 0
Range("H13").Select
Selection.Copy
Range("I13").Select
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False
Do
  Range("I25").Select
  Application.CutCopyMode = False
  Selection.Copy
  Range("I13").Select
  Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False
  i = i + 1
Loop While i < 300 And Abs(Range("i22") - Range("b22")) / Range("b22") > 0.0001
End Sub
```

Figura 60. Código de la macro "ITERARCOMPRESOR"

-Código “Barrer_gasto_turbina”:

```

Sub barrer_gasto_turbina()
Gini = 0.5
DeltaP = 0.1
Range("B22").Value = Gini
For i = 1 To 9
Range("B22").Value = Gini + DeltaP * (i - 1)
Call ITERARTURBINA
Range("B60:B97").Select
Selection.Copy
Sheets("RESULTADOS").Activate
ActiveSheet.Cells(2, i + 1).Select
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False
Sheets("INICIO").Activate

Next i

End Sub

```

Figura 61. Código de la macro “Barrer_gasto_Turbina”

- Código “Barrer_gasto_compresor”:

```

Sub barrer_gasto_compresor()
Gini = 0.5
DeltaP = 0.1
Range("B22").Value = Gini
For i = 1 To 13
Range("B22").Value = Gini + DeltaP * (i - 1)
Call ITERARCOMPRESOR
Range("C60:C97").Select
Selection.Copy
Sheets("RESULTADOS").Activate
ActiveSheet.Cells(2, 52 + i + 1).Select
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False
Sheets("INICIO").Activate

Next i

End Sub

```

Figura 62. Código de la macro “Barrer_gasto_compresor”

ANEXO 2: HOJA EXCEL

Se adjunta en formato digital la hoja Excel diseñada en este Trabajo Fin de Grado