



Report Tool – Equipment Model Report Creator Explains

08 AUG 2024

Content

ReportCreator_EquipmentModel

- Project Name: ReportCreator_EquipmentModel
- Add-in Name: Report Creator with Equipment Modeling
- Add-in Description: Report Creator with Equipment Modeling
- Runtime Wizard:
 - ProjectWizardExtension.cs
 - Form1.cs
 - Form2.cs
 - Form3.cs
 - Form4.cs

ReportCreator_EnergyArchiveTool

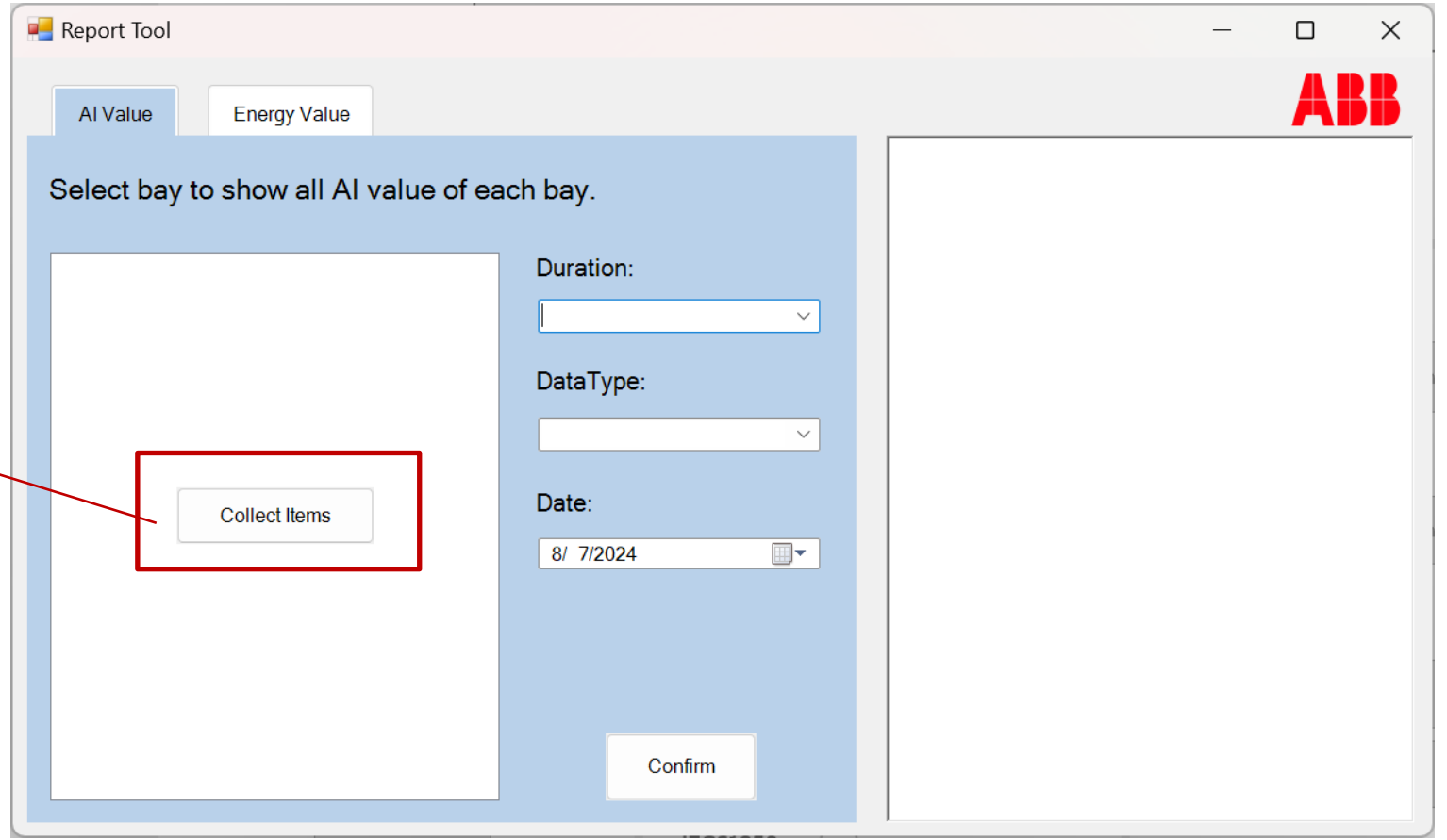
- Project Name: ReportCreator_EnergyArchiveTool
- Add-in Name: ReportCreator Energy Archive Tool
- Add-in Description: Energy Report Archive Tool
- Add-in Editor Folder Name: Energy Report Archive Tool
- Editor Wizard:
 - EngineeringStudioWizardExtension.cs
 - Form1.cs

ReportCreator_EquipmentModel

ReportCreator_EquipmentModel

Form 1

Click to collect equipment model items



Report Tool

AI Value Energy Value

Select bay to show all AI value of each bay.

Duration:

DataType:

Date:

8/ 7/2024

Collect Items

Confirm

ABB

ReportCreator_EquipmentModel

Form 1

Page AI Value

Report Tool

AI Value Energy Value

Select bay to show all AI value of each bay.

Select options for filter

Select bay to show AI value

YADONG

- 22k
 - MOF
 - MOF2
 - 100
 - 200
- 6kV
 - MVCB1
 - MVCB2
 - CB11
 - CB12
 - CB13
 - CB14
 - CB15
 - CB21
 - CB22
 - CB23
 - CB24
 - CB25
 - TIE
 - BD

Duration:
Daily

DataType:
Average

Date:
2024/08/07

Confirm

Collecting ZEE Energy
Management.HistorianConfiguration
[97].ZEE_EnergyManagementBlockGroup[3].Tag...
Collecting ZEE Energy
Management.HistorianConfiguration
[97].ZEE_EnergyManagementBlockGroup[4].Tag...
Collecting ZEE Energy
Management.HistorianConfiguration
[98].ZEE_EnergyManagementBlockGroup[4].Tag...
Collecting ZEE Energy
Management.HistorianConfiguration
[99].ZEE_EnergyManagementBlockGroup[1].Tag...
Collecting ZEE Energy
Management.HistorianConfiguration
[99].ZEE_EnergyManagementBlockGroup[2].Tag...
Collecting ZEE Energy
Management.HistorianConfiguration
[99].ZEE_EnergyManagementBlockGroup[4].Tag...
Collecting ZEE Energy
Management.HistorianConfiguration
[100].ZEE_EnergyManagementBlockGroup[3].Tag...
Collecting ZEE Energy
Management.HistorianConfiguration
[100].ZEE_EnergyManagementBlockGroup[4].Tag...
Drawing YADONG...
----- End of Operation -----

ReportCreator_EquipmentModel

Form 1 & Form 4

Report Tool

AI Value Energy Value

Select bay to show all AI value of each bay.

YADONG

- 22k
 - MOF
 - MOF2
 - 100
 - 200
- 6kV
 - MVCB1
 - MVCB2
 - ☒ CB11
 - ☒ CB12
 - ☒ CB13
 - ☐ CB14
 - ☐ CB15
 - ☐ CB21
 - ☐ CB22
 - ☐ CB23
 - ☐ CB24
 - ☐ CB25
 - TIE
 - RD

Duration: Daily

Data Type: Average

Date: 2024/08/07

Confirm

Collecting ZEE Energy
Management.HistorianConfiguration
[97].ZEE_EnergyManagementBlockGroup[3].Tag...
Collecting ZEE Energy
Management.HistorianConfiguration
[97].ZEE_EnergyManagementBlockGroup[4].Tag...
Collecting ZEE Energy
Management.HistorianConfiguration
[98].ZEE_EnergyManagementBlockGroup[4].Tag...
Collecting ZEE Energy
Management.HistorianConfiguration
[99].ZEE_EnergyManagementBlockGroup[1].Tag...
Collecting ZEE Energy
Management.HistorianConfiguration
[99].ZEE_EnergyManagementBlockGroup[2].Tag...
Collecting ZEE Energy
Management.HistorianConfiguration
[99].ZEE_EnergyManagementBlockGroup[4].Tag...
Collecting ZEE Energy
Management.HistorianConfiguration
[100].ZEE_EnergyManagementBlockGroup[3].Tag...
Collecting ZEE Energy
Management.HistorianConfiguration
[100].ZEE_EnergyManagementBlockGroup[4].Tag...
Drawing YADONG...
----- End of Operation -----

Column Selecti...

Select columns to show:

- ☒ CurrentA
- ☒ CurrentB
- ☒ CurrentC
- ☐ ResCurrent
- ☒ VoltageAB
- ☒ VoltageBC
- ☒ VoltageCA
- ☒ ResVoltage
- ☐ Frequency
- ☒ TotPF
- ☒ TotW
- ☒ TotVAr
- ☒ kVA

Open Form 4 for column selection

Confirm

ReportCreator_EquipmentModel

Form 2

AI Value preview

AI Value Preview

Date		Duration							DataType				
2024/08/07		Daily							Average				
	Bay Title	Timestamp	CurrentA	CurrentB	CurrentC	VoltageAB	VoltageBC	VoltageCA	ResVoltage	TotPF	TotW	TotVAr	kVA
▶	CB11	8/7/2024 - 10:...	0	0	0	0	0	0	NA	0.7566666666...	19.208888888...	15.133333333...	0
	CB11	8/7/2024 - 11:...	0	0	0	0	0	0	NA	1	33.479166666...	20	0
	CB11	8/7/2024 - 12:...	0	0	0	0	0	0	NA	1	17.503888888...	20	0
	CB11	8/7/2024 - 13:...	0	0	0	0	0	0	NA	1	25.457777777...	20	0
	CB11	8/7/2024 - 14:...	0	0	0	0	0	0	NA	1	33.491111111...	20	0
	CB11	8/7/2024 - 15:...	0	0	0	0	0	0	NA	1	17.490555555...	20	0
	CB11	8/7/2024 - 16:...	0	0	0	0	0	0	NA	1	25.451111111...	20	0
	CB13	8/7/2024 - 10:...	0	0	0	0	0	0	NA	0	21.129777777...	0	0
	CB13	8/7/2024 - 11:...	0	0	0	0	0	0	NA	0	36.827083333...	0	0
	CB13	8/7/2024 - 12:...	0	0	0	0	0	0	NA	0	19.254277777...	0	0
	CB13	8/7/2024 - 13:...	0	0	0	0	0	0	NA	0	28.003555555...	0	0
	CB13	8/7/2024 - 14:...	0	0	0	0	0	0	NA	0	36.840222222...	0	0
	CB13	8/7/2024 - 15:...	0	0	0	0	0	0	NA	0	19.239611111...	0	0
	CB13	8/7/2024 - 16:...	0	0	0	0	0	0	NA	0	27.996222222...	0	0
▶	Minimum		0	0	0	0	0	0	NA	0	17.49055	0	0
	Maximum		0	0	0	0	0	0	NA	1	36.84022	20	0
	Average		0	0	0	0	0	0	NA	0.482619	25.81237	9.652381	0
	Summary		0	0	0	0	0	0	NA	6.756667	361.3732	135.1333	0

Folder: C://Temp

Search

Print + Close

Export file to csv and close this Window

ReportCreator_EquipmentModel

Form 1

Page Energy Value

AI Value **Energy Value**

Select options for filter

Show energy value for each bay, default all bays.

Select bay to show Energy value

YADONG

- 22k
 - MOF
 - MOF2
 - 100
 - 200
- 6kV
 - MVCB1
 - MVCB2
 - CB11
 - CB12
 - CB13
 - CB14
 - CB15
 - CB21
 - ☒ CB22
 - ☒ CB23
 - CB24
 - CB25
 - TIE
 - BR

Duration: Daily

DataType: Average

Date: 2024/08/07

Energy Type: kWh+

Confirm

Archive: CB13_1H
Start collecting: YADONG-6kV-CB13.Feature.SLD.MX.kVA
Archive: CB13_1H
Start collecting: YADONG-6kV-CB13.Feature.SLD.MX.TotPF
Archive: CB13_1H
Start collecting: YADONG-6kV-CB13.Feature.SLD.MX.TotVar
Archive: CB13_1H
Start collecting: YADONG-6kV-CB13.Feature.SLD.MX.TotW
Archive: CB13_1H
Start collecting: YADONG-6kV-CB13.Feature.SLD.MX.VoltageAB
Archive: CB13_1H
Start collecting: YADONG-6kV-CB13.Feature.SLD.MX.VoltageBC
Archive: CB13_1H
Start collecting: YADONG-6kV-CB13.Feature.SLD.MX.VoltageCA
Archive: CB13_1H
AI_Items collected.
Items2Print_content collected.
Calculation4 collected.
----- End of Operation -----

ReportCreator_EquipmentModel

Form 3

Energy Value
preview

Energy Value Preview

Date	Duration	Energy Type	Energy Type
2024/08/07	Daily	Average	kWh+

Timestamp	CB22	CB23
8/7/2024 - 10:00:00	44.16	46.92
8/7/2024 - 11:00:00	24	25.5
8/7/2024 - 12:00:00	24	25.5
8/7/2024 - 13:00:00	24	25.5
8/7/2024 - 14:00:00	24	25.5
8/7/2024 - 15:00:00	24	25.5
8/7/2024 - 16:00:00	24	25.5
8/7/2024 - 17:00:00	21.9428571428571	23.3142857142858

	CB22	CB23
Minimum	21.94286	23.31429
Maximum	44.16	46.92
Average	26.26286	27.90429
Summary	210.1029	223.2343

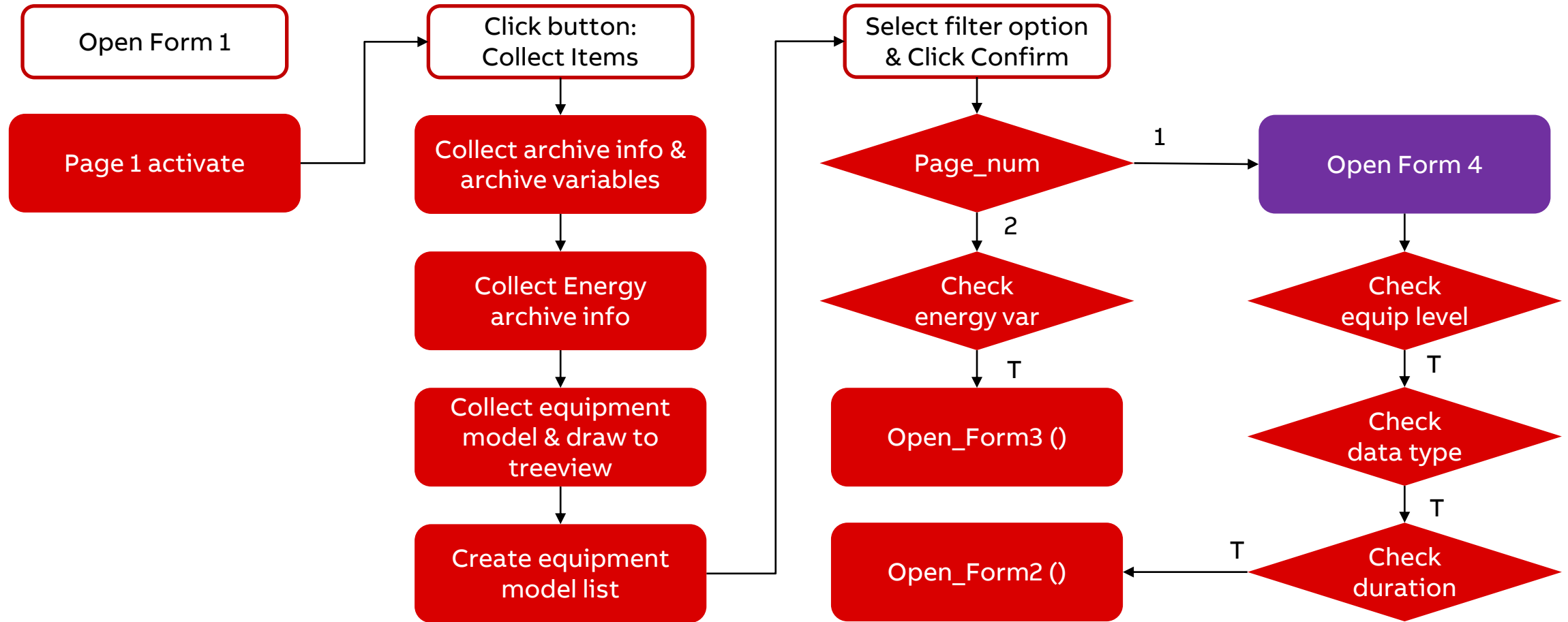
Folder: C://Temp

Search

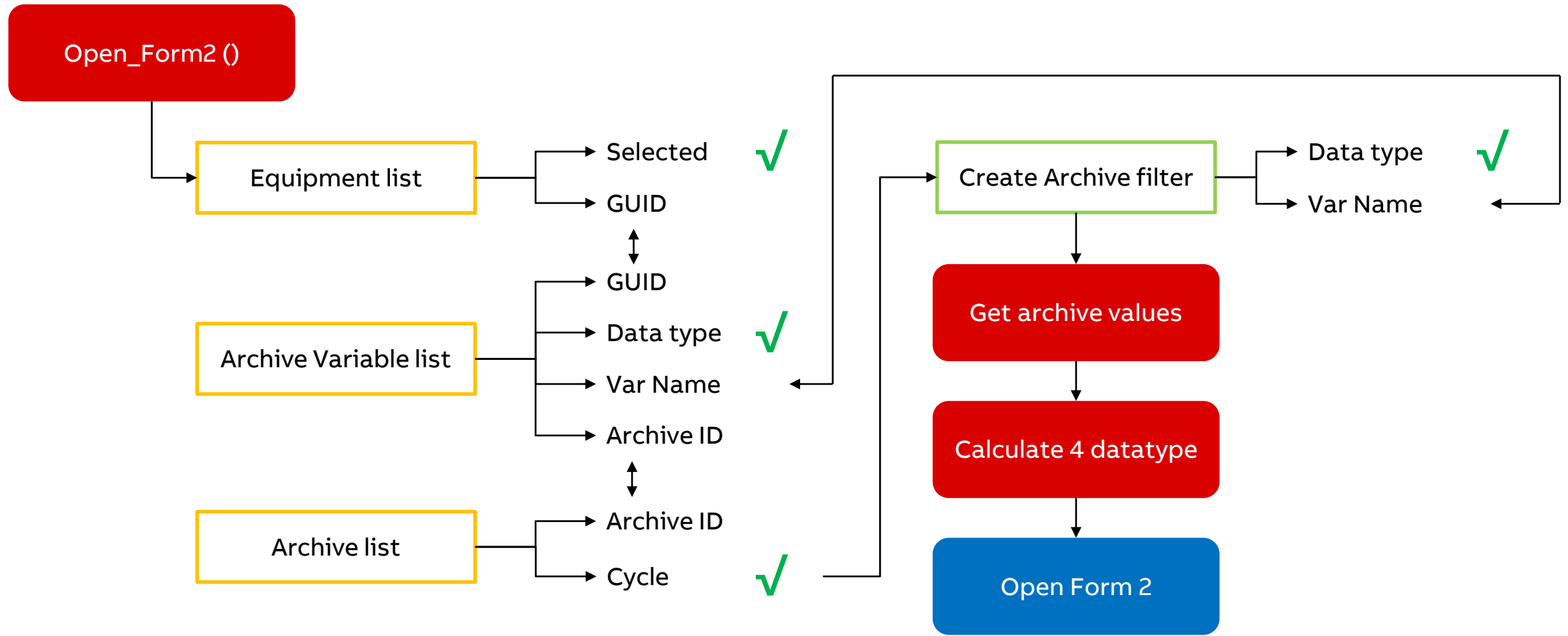
Print + Close

Export file to csv and
close this Window

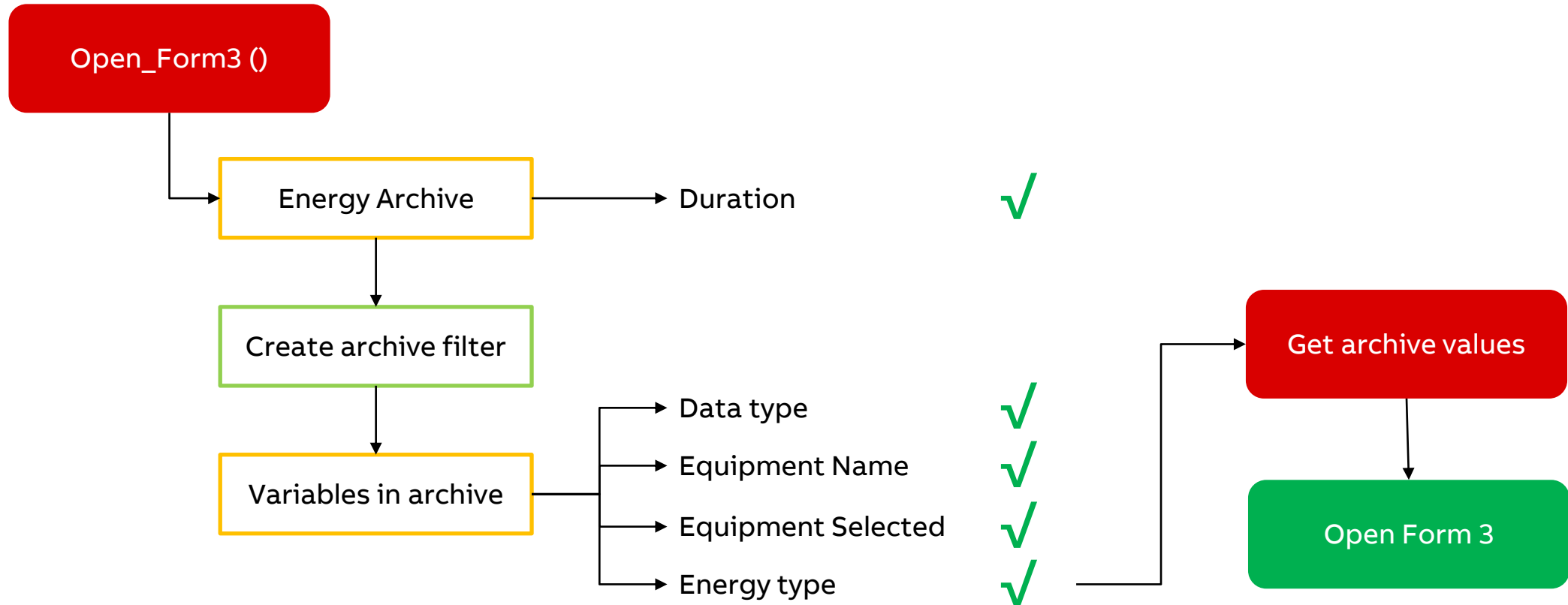
Project codes explains



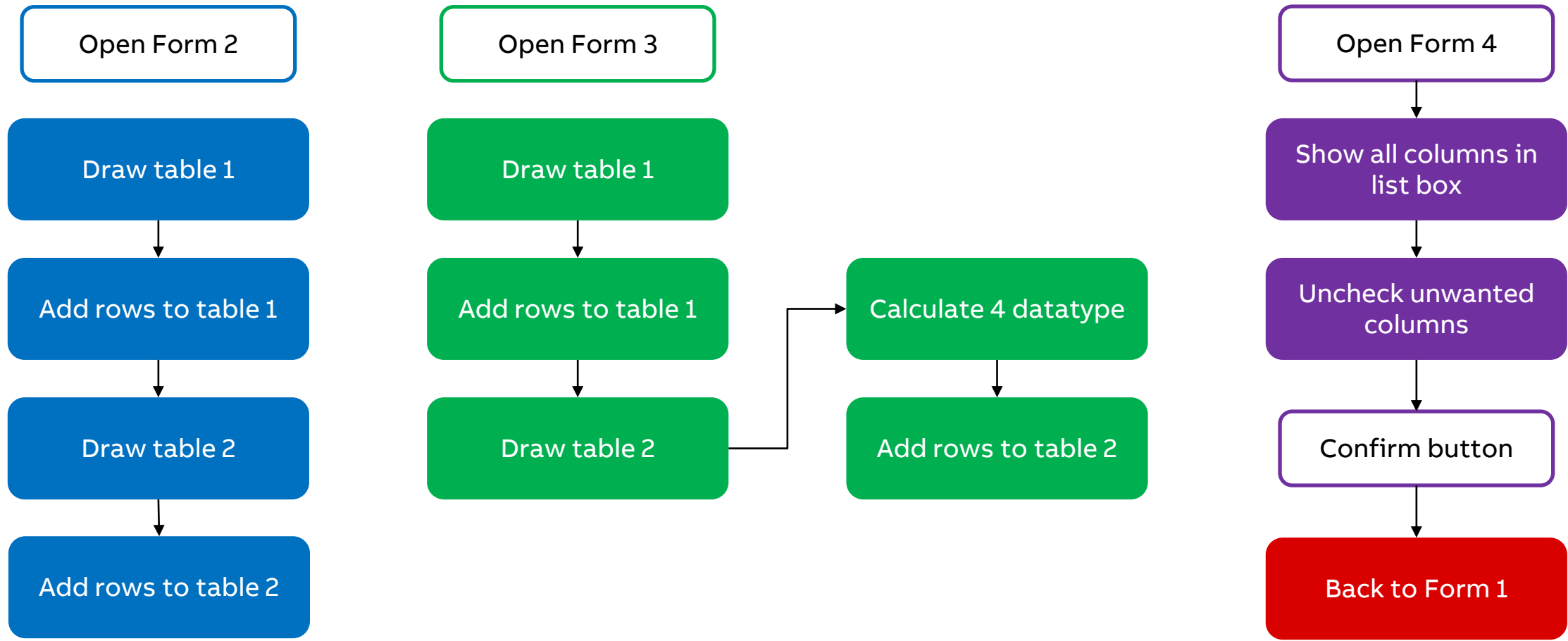
Project codes explains



Project codes explains



Project codes explains



Sub-program list

Form 1

- [Button] CollectArchiveItems_Click
- [Button] Confirm_Click
- [Button] AI_Value_Page_Click
- [Button] Energy_Value_Page_Click
- [Sub] Open_Form2
- [Sub] Open_Form3
- [Sub] Get4Calculation
- [Sub] EM_Tree
- [Sub] Int2date
- [Sub] DatePicker2Unix
- [Sub] GetNode
- [Sub] CheckAllChildNodes
- [Sub] Page1_Activate
- [Sub] Page2_Activate
- [Event] DurationSelection
- [Event] ChildNode_check
- [Class] Equipments
- [Class] AI_Content
- [Class] items2Print
- [Class] AI_Final
- [Class] ArchiveInfo
- [Class] ArchiveVarInfo
- [Class] ZEEEnergyVar

Sub-program list

Form 2

- [Button] Print_Close_Click
- [Button] SearchFolder_Click
- [Sub] TitleContent
- [Sub] DataTable_Startup
- [Sub] DataTable2_Startup
- [Sub] DataTable_AddRow
- [Sub] DataTable2_AddRow

Form 3

- [Button] PrintClose_Click
- [Button] SearchFolder_Click
- [Sub] DataTable_Startup
- [Sub] DataTable2_Startup
- [Sub] AddAllRow
- [Sub] Get4Calculus
- [Sub] Draw_table2
- [Sub] Int2date
- [Class] AllBay
- [Class] Row_toShow
- [Class] Calculus

Form 4

- [Button] button1_Click

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ReportCreator_EnergyArchiveTool

ReportCreator_EnergyArchiveTool

This add-in create ZEE Energy Tag variable and ZEE Energy DeltaValue variable for all the energy variables existed. Also assign energy variable name to the initial value of the related ZEE Energy Tag variable. Before operating this add-in, E1_HistorianTemplate.XML must be imported into editor.

Ex:

Energy variable name: Bay1.ActiveEnergyFwd

>> ZEE Energy Management.HistorianConfiguration[0].ZEE_EnergyManagementBlockGroup[0].Tag

>> ZEE Energy Management.HistorianConfiguration[0].ZEE_EnergyManagementBlockGroup[0]. DeltaValue

Energy variable name: Bay1.ReactiveEnergyFwd

>> ZEE Energy Management.HistorianConfiguration[1].ZEE_EnergyManagementBlockGroup[1].Tag

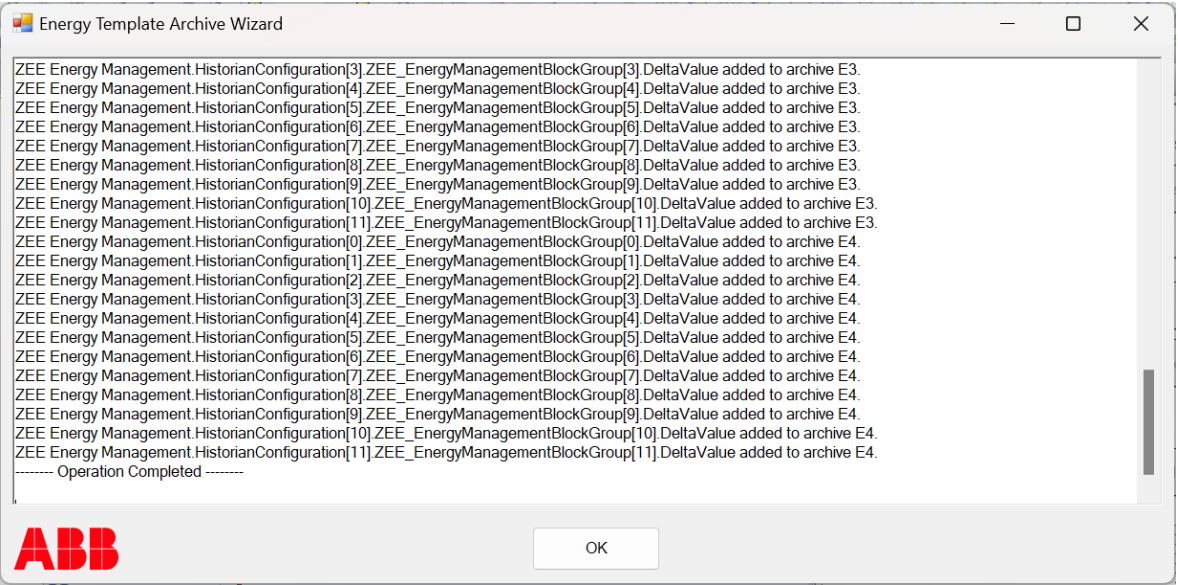
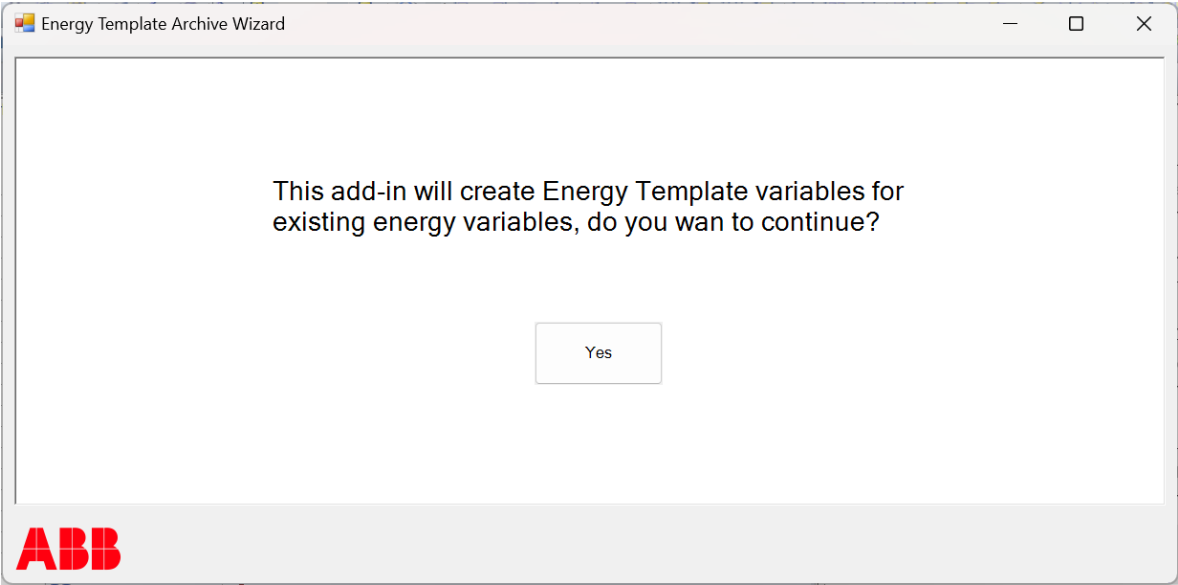
>> ZEE Energy Management.HistorianConfiguration[1].ZEE_EnergyManagementBlockGroup[1]. DeltaValue

ZEE Energy Tag variables and ZEE Energy Deltavalue variables are used in ReportCreator_EquipmentModel.

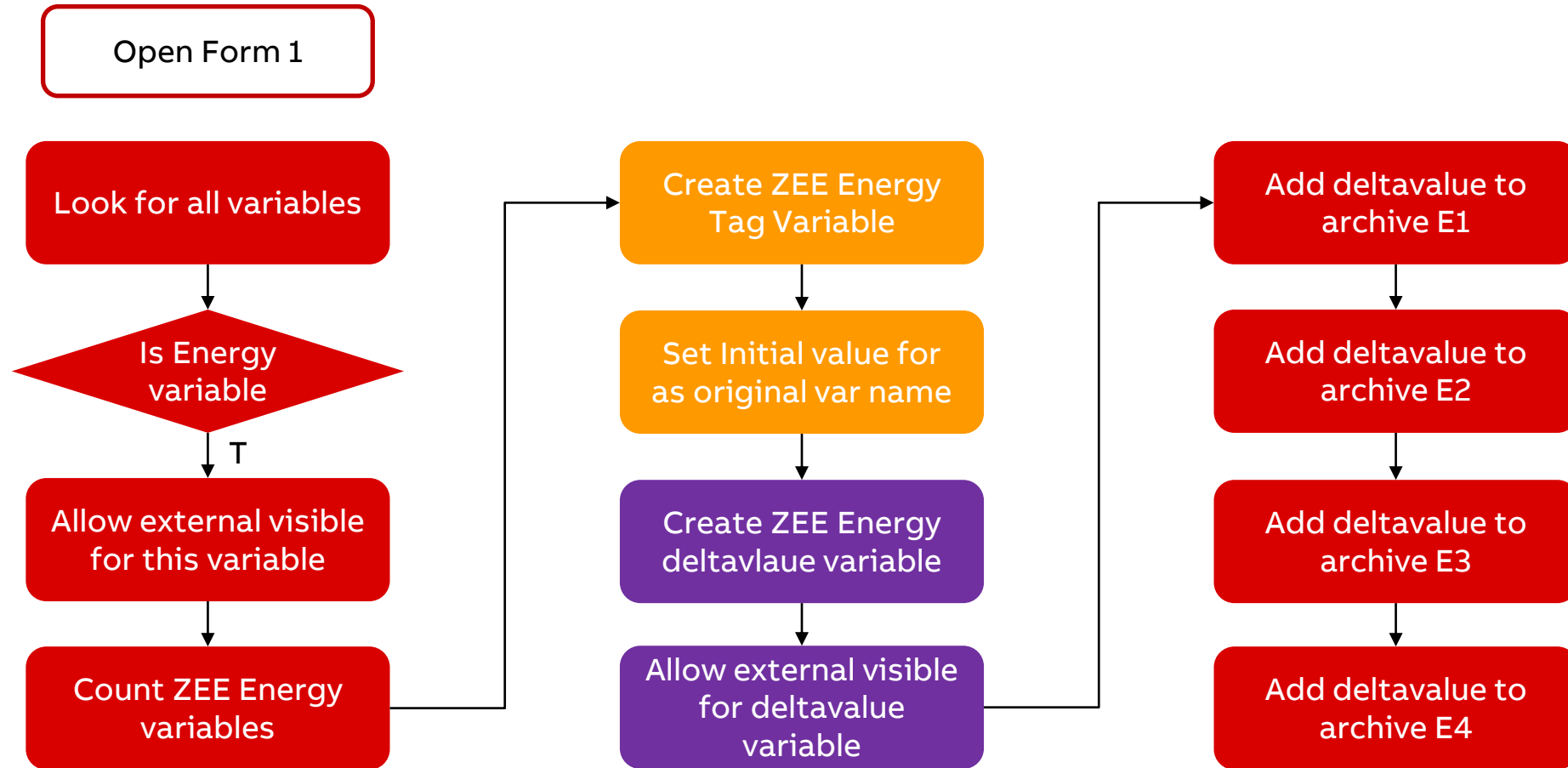


ReportCreator_EnergyArchiveTool

Form 1



Project codes explains



ABB